Clean Copy of Replacement Pages for Brief Description of the Drawings

Brief Description of the Drawings

Fig. 1 is a block diagram of a computer system with a distributed processing system;

Figs. 2a-2b are block and flow diagrams of a distributed network management system;

Figs. 3a-3b are a block diagram of a logical system model;

Figs. 3c and 3e-3g are flow diagrams depicting a software build process using a logical system model;

Fig. 3d is a flow diagram illustrating a method for allowing applications to view data within a database;

Fig. 3h is a flow diagram depicting a configuration process;

Figs. 3i and 3l are flow diagrams depicting template driven network services provisioning processes;

Figs. 3j-3k and 3m-3o are screen displays of an OSS client and various templates;

C1 Figs. 4a-4z, 5a-5z, 6a-6p, 7a-7y, 8a-8e, 9a-9n, 10a-10i, 11a-11m, 11p-11q, 11u and 11z are screen displays of graphical user interfaces;

Figs. 11n-11o are tables representing data in a configuration database;

Figs. 11r-11t and 11v-11w are tables representing data in a network management system (NMS) database;

Fig. 11x is a block and flow diagram representing the creation of a user profile logical managed object including one or more groups;

Fig. 11y is a block and flow diagram of a network management system implementing user profiles and groups across multiple databases;

Figs. 12a and 13a are block and flow diagrams of a computer system incorporating a modular system architecture and illustrating a method for accomplishing hardware inventory and setup;

Figs. 12b-12c and 14a-14f are tables representing data in a configuration database;

Fig. 13b is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for configuring the computer system using a network management system;

Figs. 13c and 13d are block and flow diagrams of an accounting subsystem for pushing network device statistics to network management system software;

Fig. 15 is a block and flow diagram of a line card and a method for executing multiple instances of processes;

Figs. 16a-16b are flow diagrams illustrating a method for assigning logical names for inter-process communications;

Fig. 16c is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for using logical names for inter-process communications;

Fig. 16d is a chart representing a message format;

Figs. 17-19 are block and flow diagrams of a computer system incorporating a modular system architecture and illustrating methods for making configuration changes;

Fig. 20 is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for distributing logical model changes to users;

Fig. 21 is a block diagram of a computer system incorporating a modular system architecture and illustrating a method for making a process upgrade;

C1

Fig. 22 is a block diagram representing a revision numbering scheme;

Fig. 23 is a block and flow diagram of a computer system incorporating a modular system architecture and illustrating a method for making a device driver upgrade;

cont

Fig. 24 is a block diagram representing processes within separate protected memory blocks;

Fig. 25 is a block and flow diagram of a line card and a method for accomplishing vertical fault isolation;

Fig. 26 is a block and flow diagram of a computer system incorporating a hierarchical and configurable fault management system and illustrating a method for accomplishing fault escalation.

Fig. 27 is a block diagram of an application having multiple sub-processes;

Fig. 28 is a block diagram of a hierarchical fault descriptor;

Fig. 29 is a block and flow diagram of a computer system incorporating a distributed redundancy architecture and illustrating a method for accomplishing distributed software redundancy;

Fig. 30 is a table representing data in a configuration database;

Figs. 31a-31c, 32a-32c, 33a-33d and 34a-34b are block and flow diagrams of a computer system incorporating a distributed redundancy architecture and illustrating methods for accomplishing distributed redundancy and recovery after a failure;

Figs. 35a-35b are block diagrams of a network device;

Figs. 36a-36b are block diagrams of a portion of a data plane of a network device;

Fig. 37 is a block and flow diagram of a network device incorporating a policy provisioning manager;

Figs. 38 and 39 are tables representing data in a configuration database;

Fig. 40 is an isometric view of a network device;

Figs. 41a-41c are front, back and side block diagrams, respectively, of components and modules within the network device of Fig. 40;

Figs. 42a-42b are block diagrams of dual mid-planes;

C1 cont

Fig. 43 is a block diagram of two distributed switch fabrics and a central switch fabric;

Fig. 44 is a block diagram of the interconnections between switch fabric central timing subsystems and switch fabric local timing subsystems;

Figs. 45a-45b are block diagrams of a switch fabric central timing subsystem;

Fig. 46 is a state diagram of master / slave selection for switch fabric central timing subsystems;

Figs. 47a-47b are block diagrams of a switch fabric local timing subsystem;

Fig. 48 is a state diagram of reference signal selection for switch fabric local timing subsystems;

Fig. 49 is a block diagram of the interconnections between external central timing subsystems and external local timing subsystems;

Figs. 50a-50c are block diagrams of an external central timing subsystem;

Fig. 51 is a timing diagram of a first timing reference signal with an embedded second timing signal;

Fig. 52 is a block diagram of an embeddor circuit;

Fig. 53 is a block diagram of an extractor circuit;

Figs. 54a-54b are block diagrams of an external local timing subsystem;

Figs. 55a-55c are block diagrams of an external central timing subsystem;

Fig. 56 is a block diagram of a network device connected to test equipment through programmable physical layer test ports;

Fig. 57 is a block and flow diagram of a network device incorporating programmable physical layer test ports;

Fig. 58 is a block diagram of a test path table;

Fig. 59 is a block and flow diagram of a network management system incorporating proxies to improve NMS server scalability;

Figs. 60a-60n are tables representing data in a configuration database;

Fig. 61a is a block diagram representing a physical managed object;

Fig. 61b is a block diagram representing a proxy;

Fig. 62 is a screen display of a dialog box;

C 1 cont

Figs. 63a-63b are block diagrams of a network device connected to an NMS;

Fig. 64 is a table representing data in an NMS database;

Fig. 65 is a block and flow diagram of a threshold management system;

Fig. 66a-66e are screen displays of a graphical user interface;

Fig. 67 is a screen display of a threshold dialog box;

Figs. 68, 69a-69b, 70a-70b and 71 are tables representing data in a configuration database;

Fig. 72a is a front, isometric view of a power distribution unit;

Fig. 72b is a rear, isometric view of the power distribution unit of Fig. 72a without a cover;

Fig. 73a is a rear, isometric view of a network device chassis including dual midplanes;

Figs. 73b-73c are enlarged views of portions of Fig. 73a; and

Fig. 74 is a block and schematic diagram of a portion of a module including a power supply circuit.

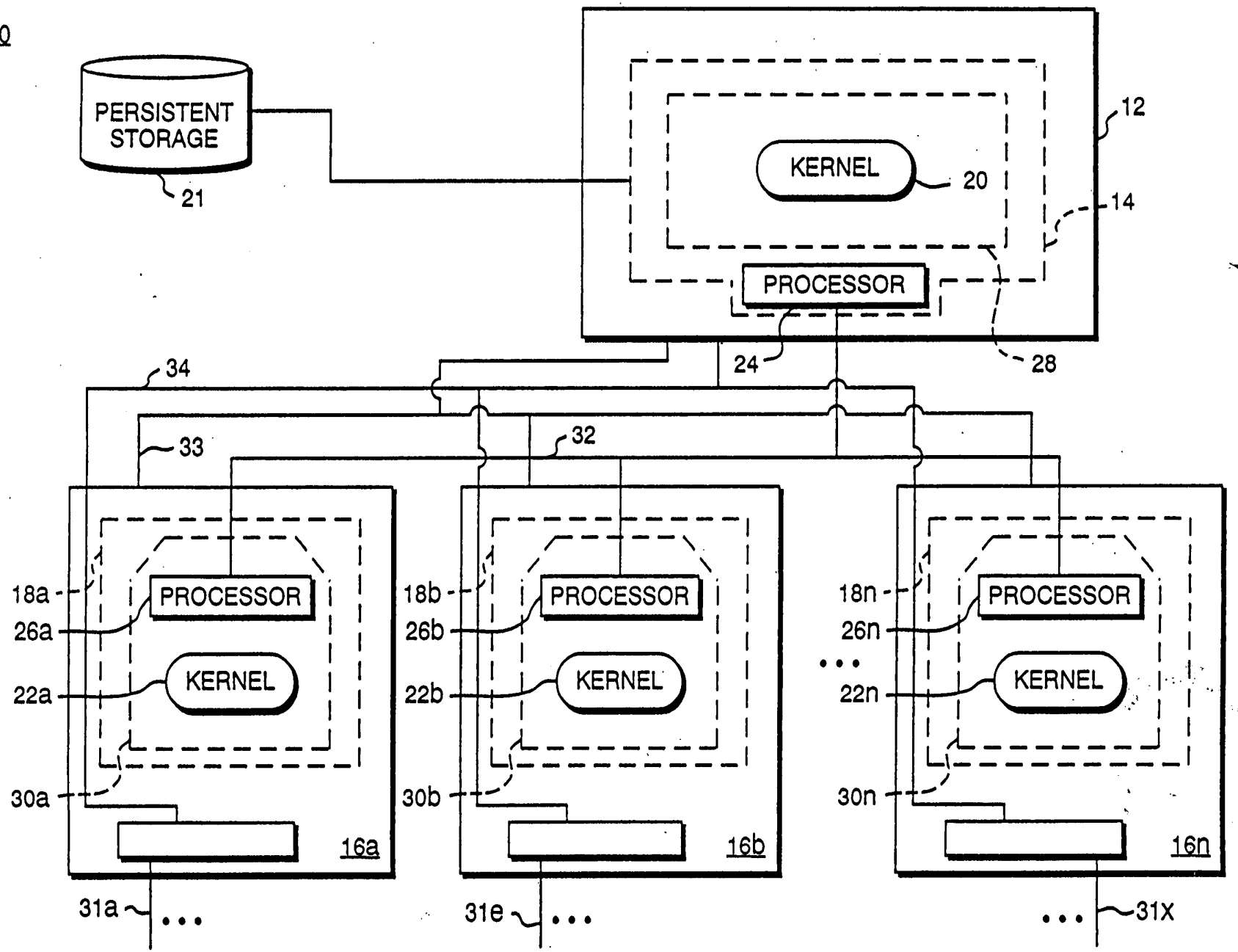


FIG. 1

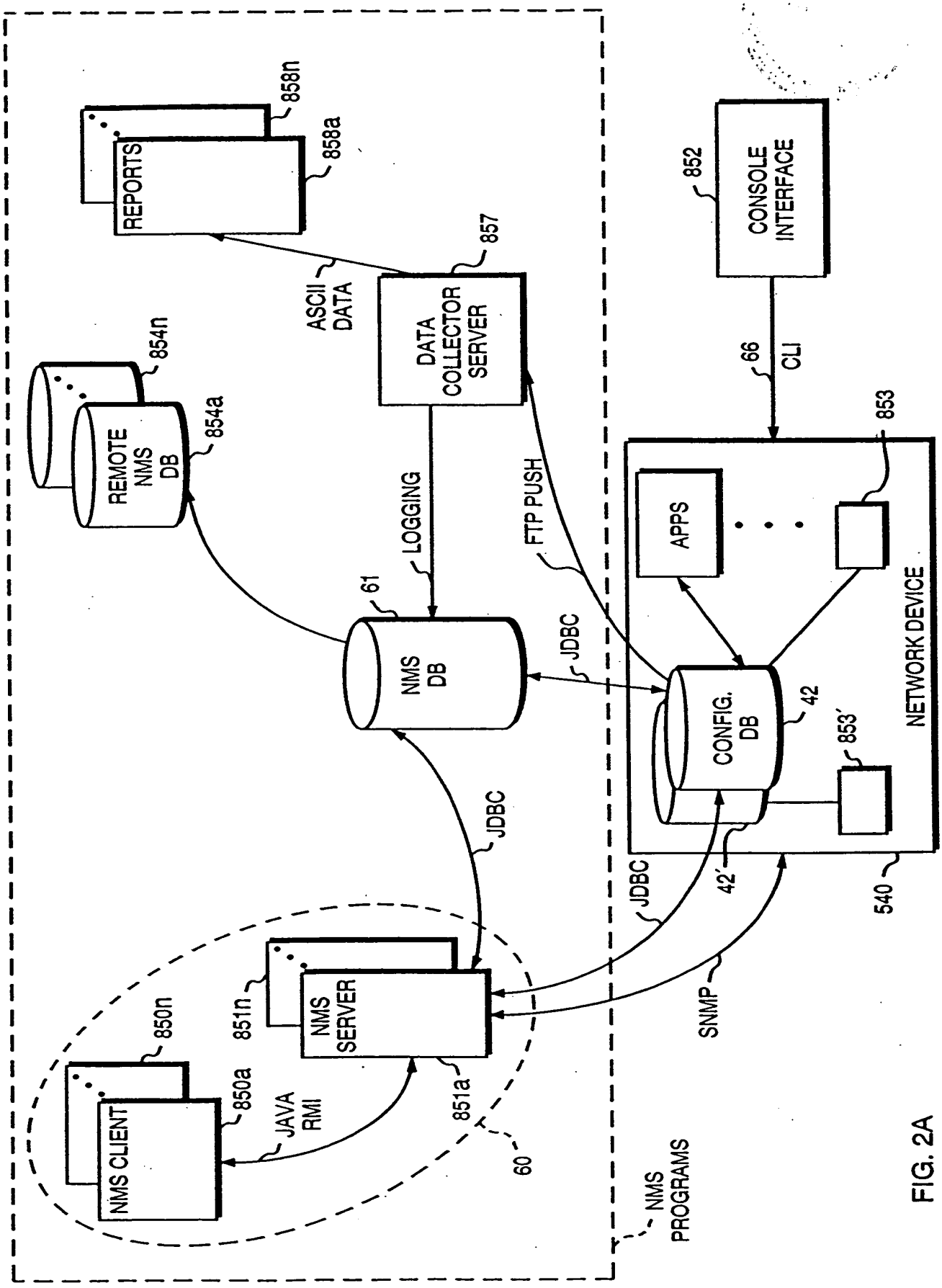

858n
858a
REPORTS
ASCII DATA
857
DATA COLLECTOR SERVER
852
CONSOLE INTERFACE
66
CLI
854n
854a
REMOTE NMS DB
LOGGING
FTP PUSH
853
APPS
61
NMS DB
JDBC
CONFIG. DB
42
853'
NETWORK DEVICE
JDBC
42'
540
SNMP
850n
851n
NMS SERVER
NMS CLIENT
850a
JAVA RMI
851a
60
NMS PROGRAMS

FIG. 2A

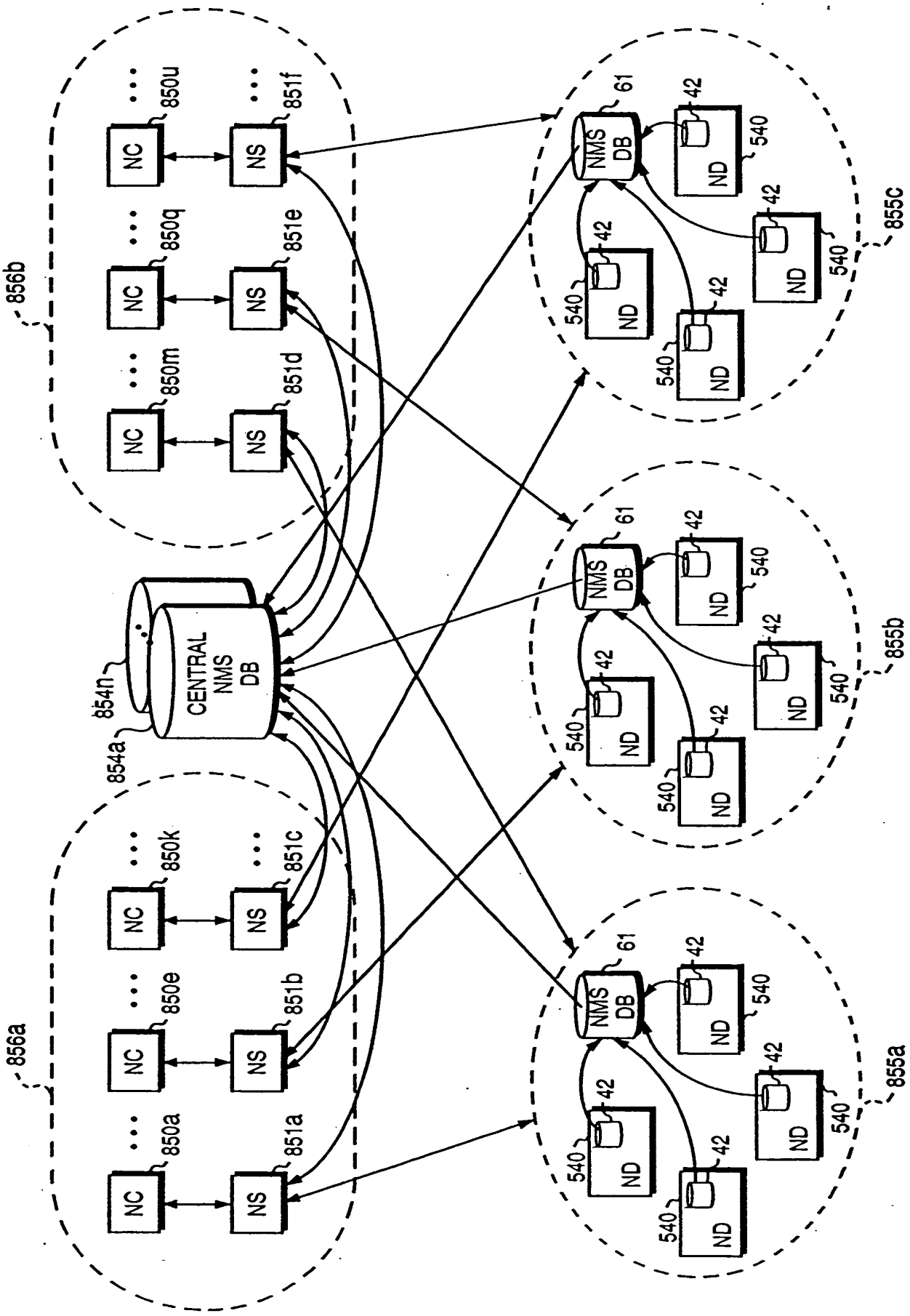

856a
856b
855a
855b
855c
CENTRAL NMS DB
854a
854n
NC
NS
NMS DB
ND
61
42
540
850a
850e
850k
850m
850q
850u
851a
851b
851c
851d
851e
851f

FIG. 2B

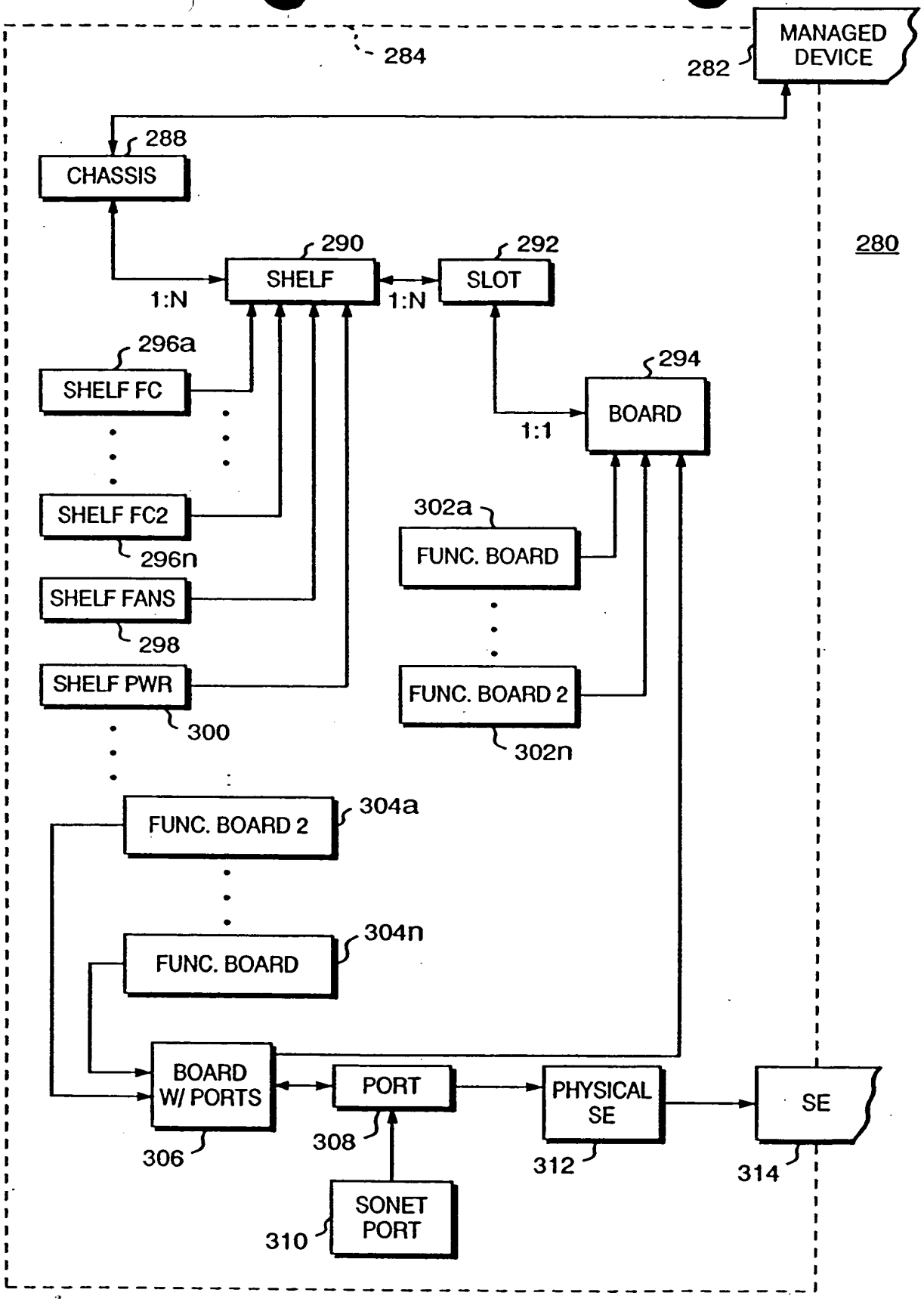

MANAGED DEVICE
282
284
280
288
CHASSIS
290
SHELF
292
SLOT
1:N
1:N
296a
SHELF FC
SHELF FC2
296n
SHELF FANS
298
SHELF PWR
300
294
BOARD
1:1
302a
FUNC. BOARD
FUNC. BOARD 2
302n
304a
FUNC. BOARD 2
304n
FUNC. BOARD
BOARD W/ PORTS
306
PORT
308
SONET PORT
310
PHYSICAL SE
312
SE
314

FIG. 3A

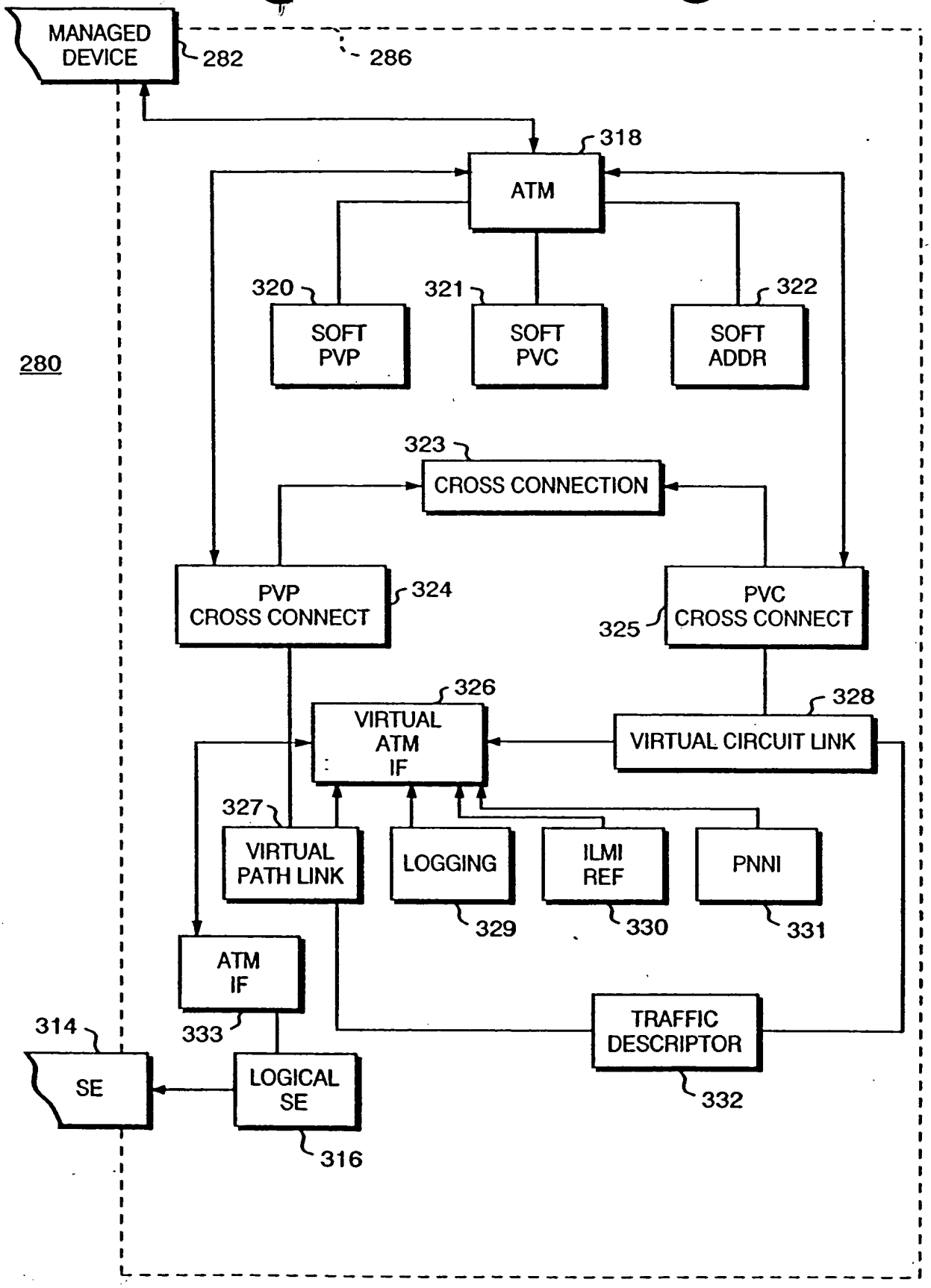

MANAGED DEVICE
282
286
318
ATM
320
SOFT PVP
321
SOFT PVC
322
SOFT ADDR
280
323
CROSS CONNECTION
PVP CROSS CONNECT
324
PVC CROSS CONNECT
325
326
VIRTUAL ATM IF
328
VIRTUAL CIRCUIT LINK
327
VIRTUAL PATH LINK
LOGGING
329
ILMI REF
330
PNNI
331
ATM IF
333
TRAFFIC DESCRIPTOR
332
314
SE
LOGICAL SE
316

FIG. 3B

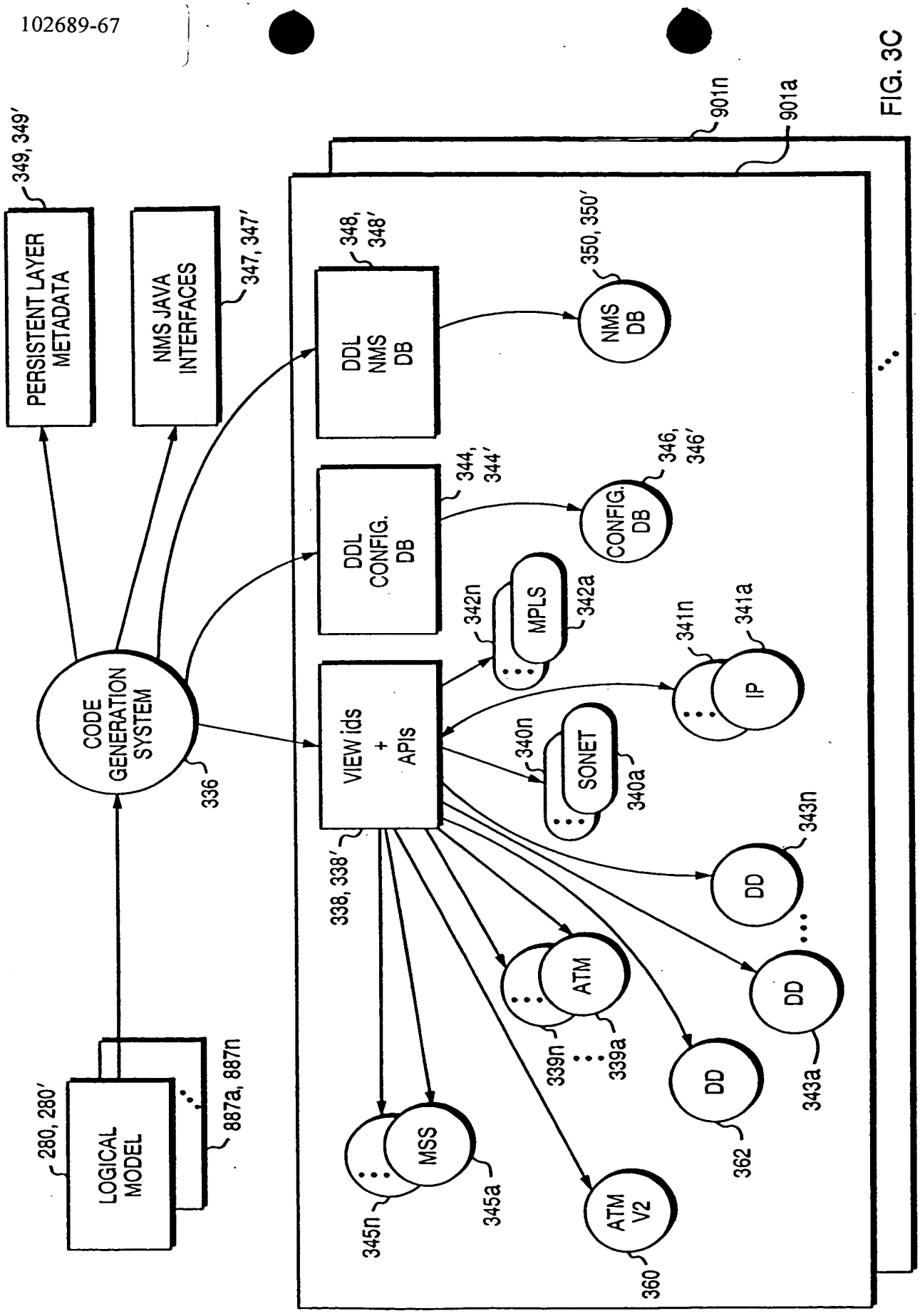

901n
901a
349, 349'
PERSISTENT LAYER METADATA
NMS JAVA INTERFACES
347, 347'
348, 348'
DDL NMS DB
350, 350'
NMS DB
DDL CONFIG. DB
344, 344'
CONFIG. DB
346, 346'
342n
MPLS
342a
341n
IP
341a
CODE GENERATION SYSTEM
336
VIEW ids + APIs
340n
SONET
340a
338, 338'
DD
343n
ATM
339n
339a
DD
DD
343a
MSS
345n
345a
DD
362
ATM V2
360
280, 280'
LOGICAL MODEL
887a, 887n

FIG. 3C

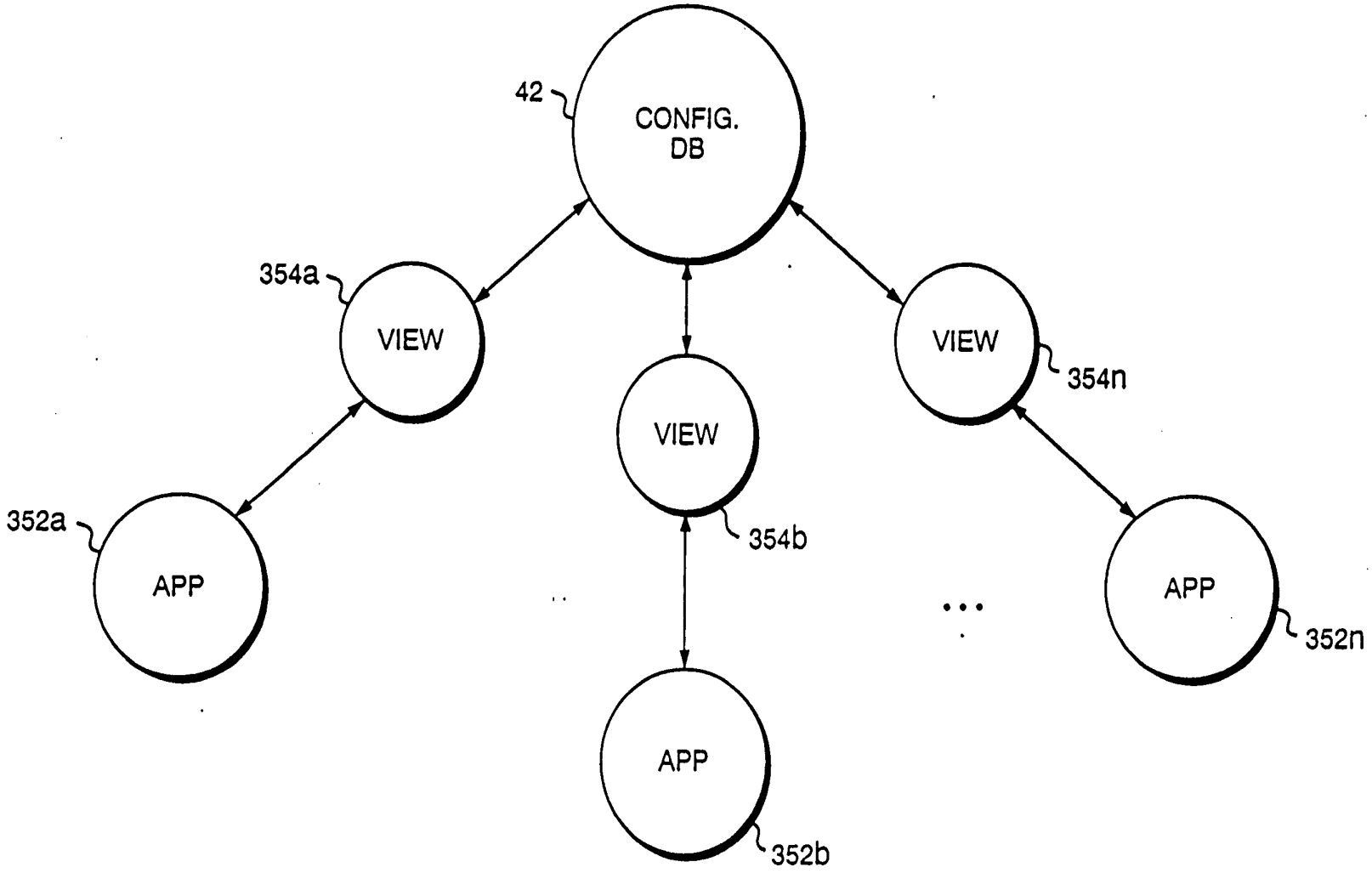


FIG. 3D

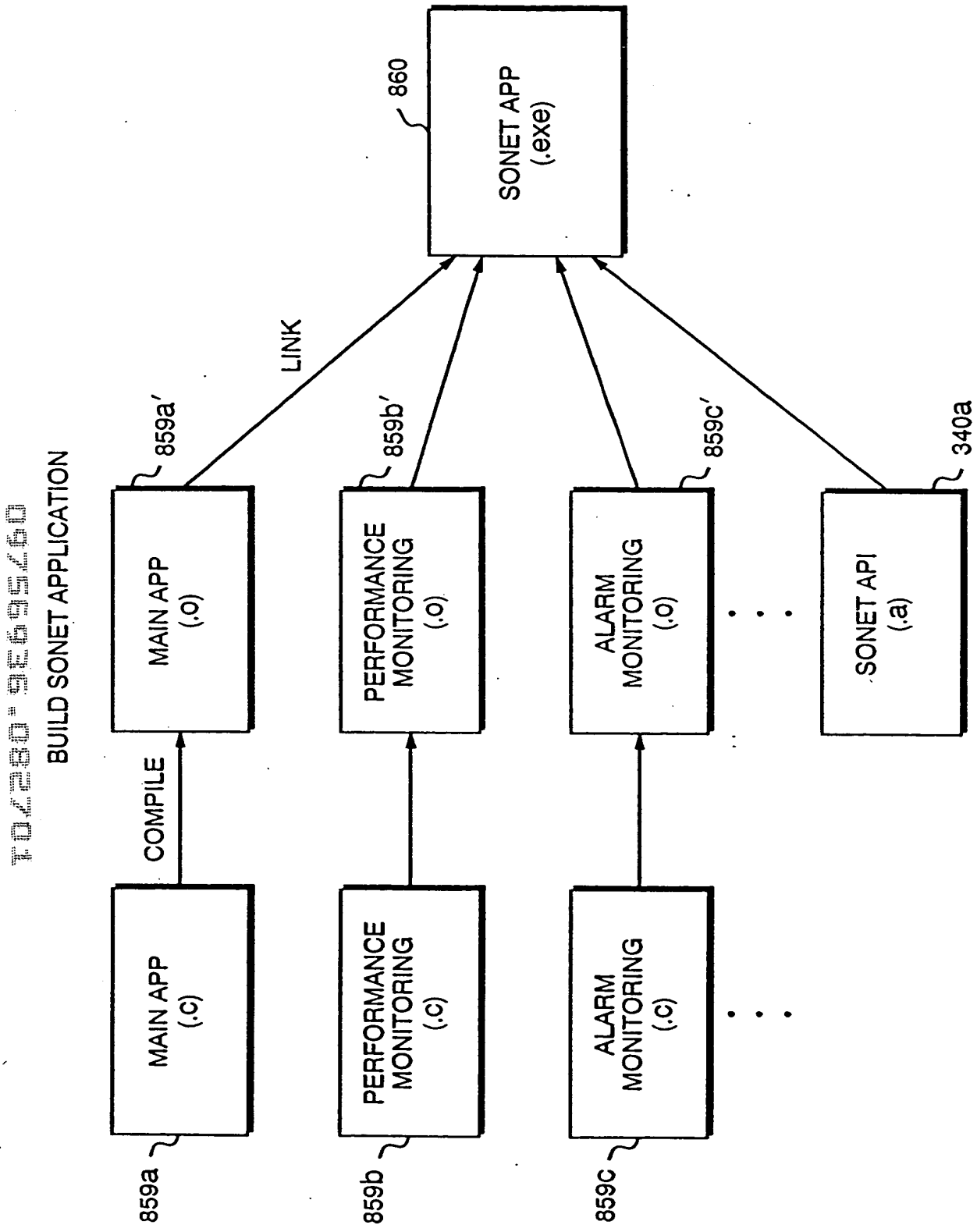

BUILD SONET APPLICATION
COMPILE
LINK
MAIN APP (.c)
PERFORMANCE MONITORING (.c)
ALARM MONITORING (.c)
MAIN APP (.o)
PERFORMANCE MONITORING (.o)
ALARM MONITORING (.o)
SONET API (.a)
SONET APP (.exe)
859a
859b
859c
859a'
859b'
859c'
340a
860

FIG. 3E

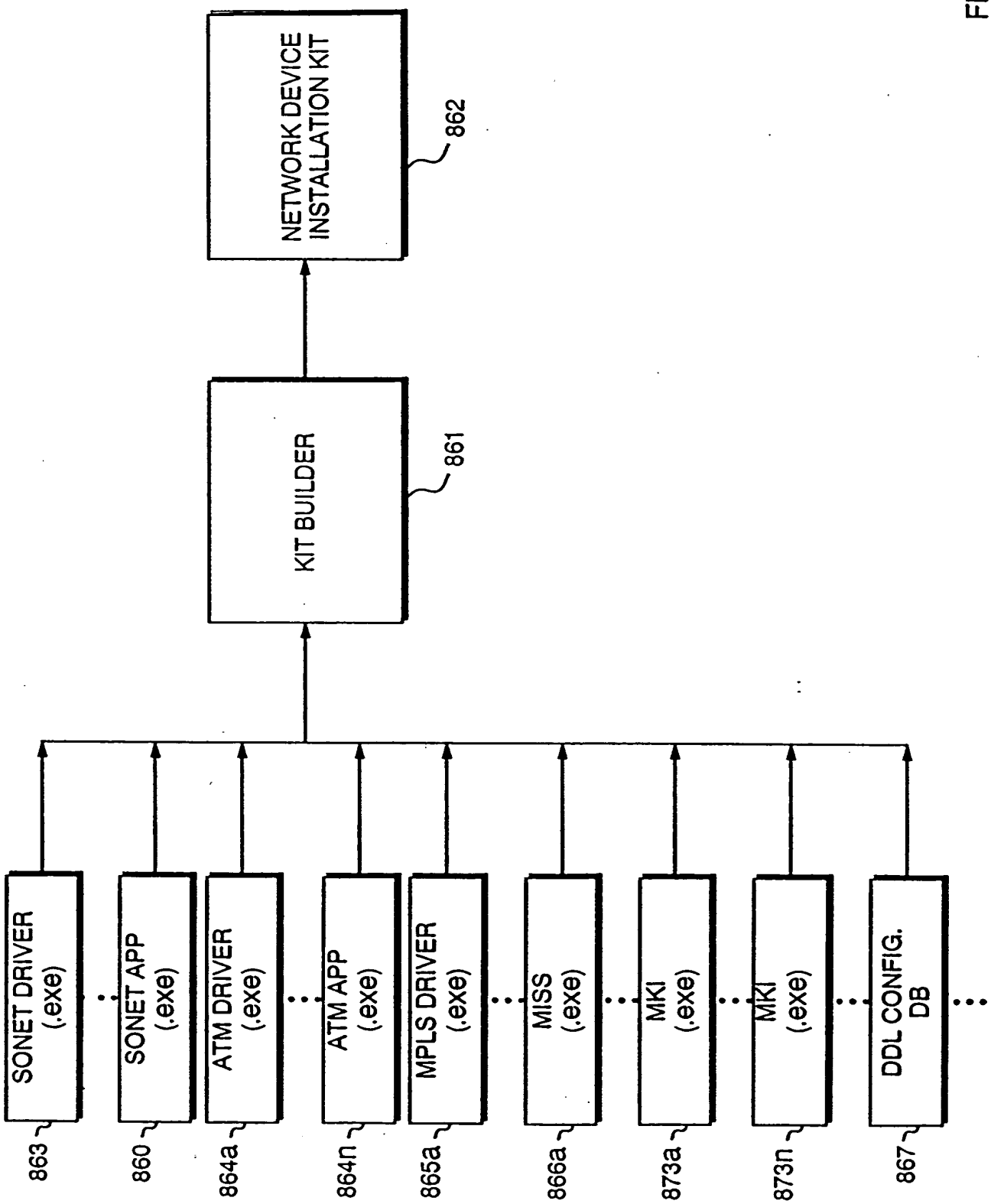

NETWORK DEVICE INSTALLATION KIT
862
KIT BUILDER
861
SONET DRIVER (.exe)
SONET APP (.exe)
ATM DRIVER (.exe)
ATM APP (.exe)
MPLS DRIVER (.exe)
MISS (.exe)
MKI (.exe)
MKI (.exe)
DDL CONFIG. DB
863
860
864a
864n
865a
866a
873a
873n
867

FIG. 3F

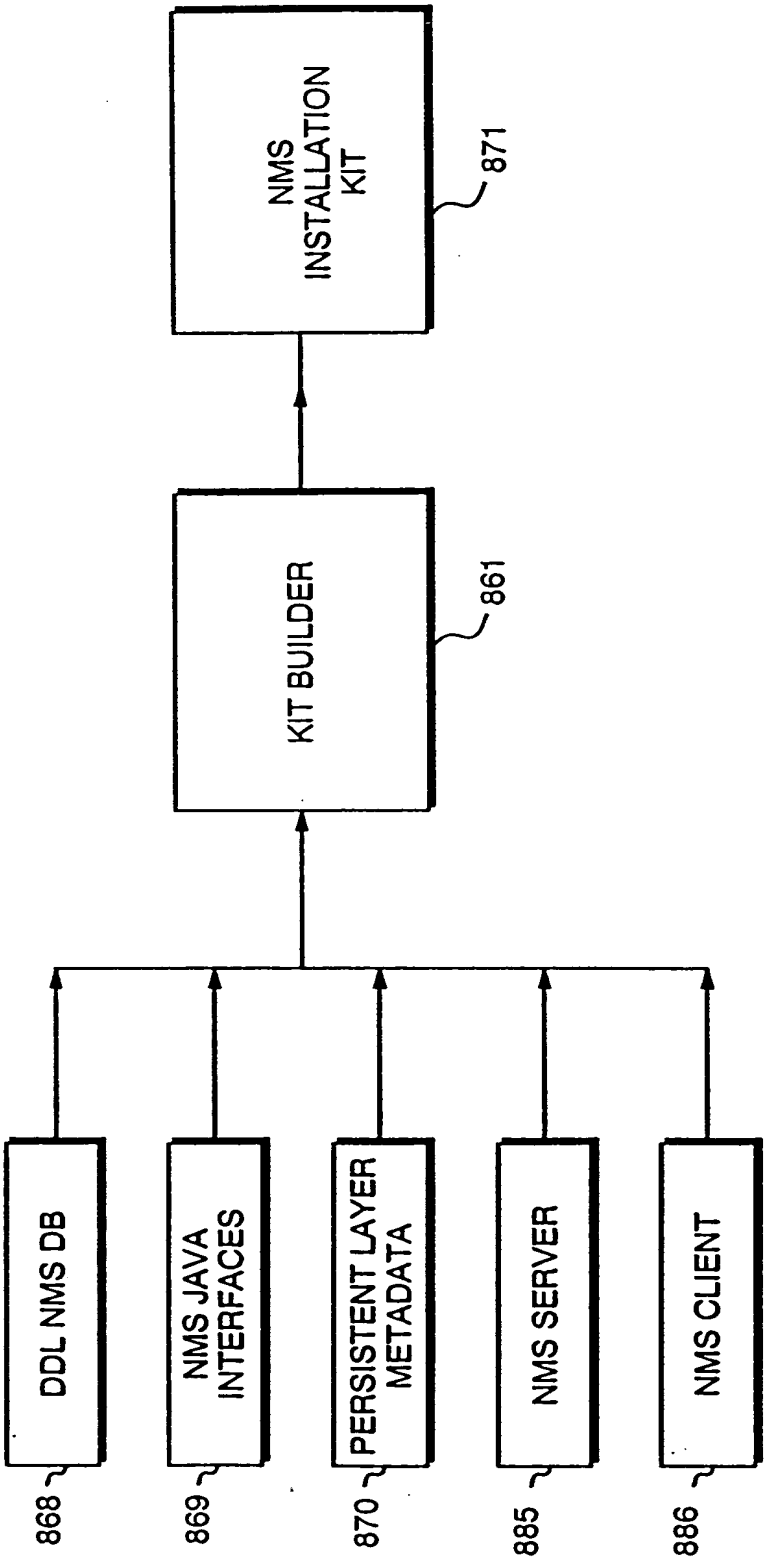


FIG. 3G

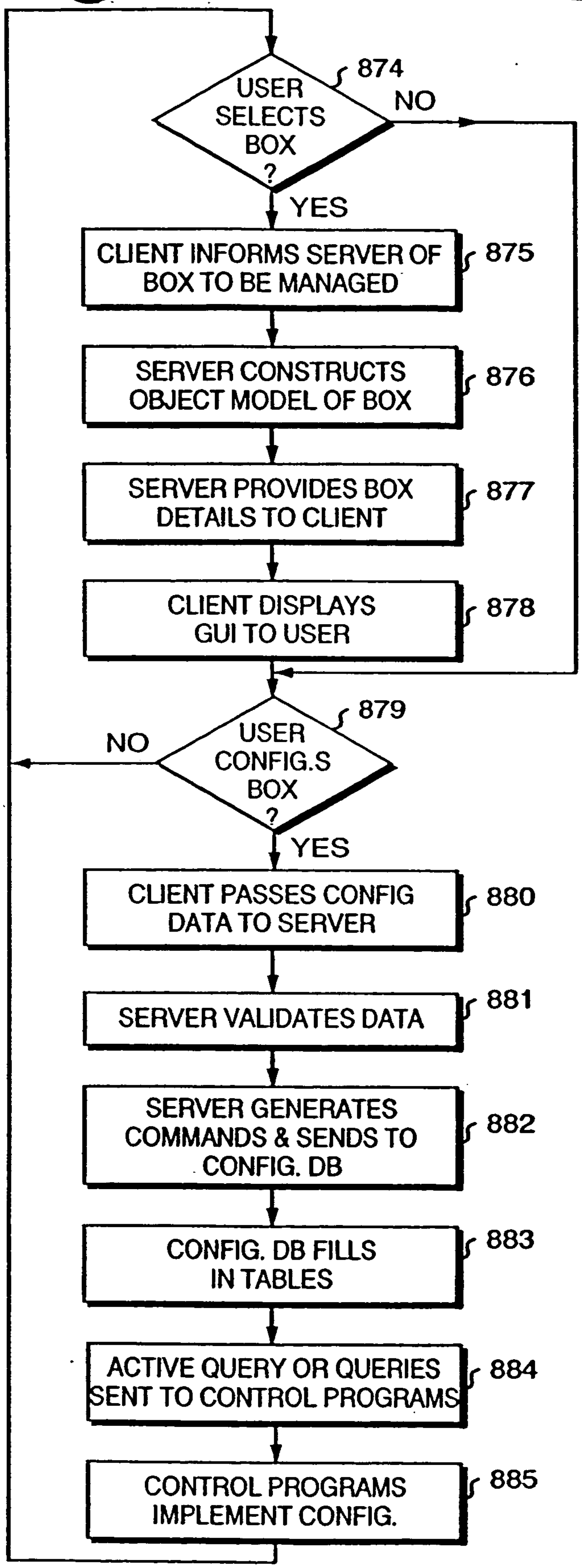


FIG. 3H

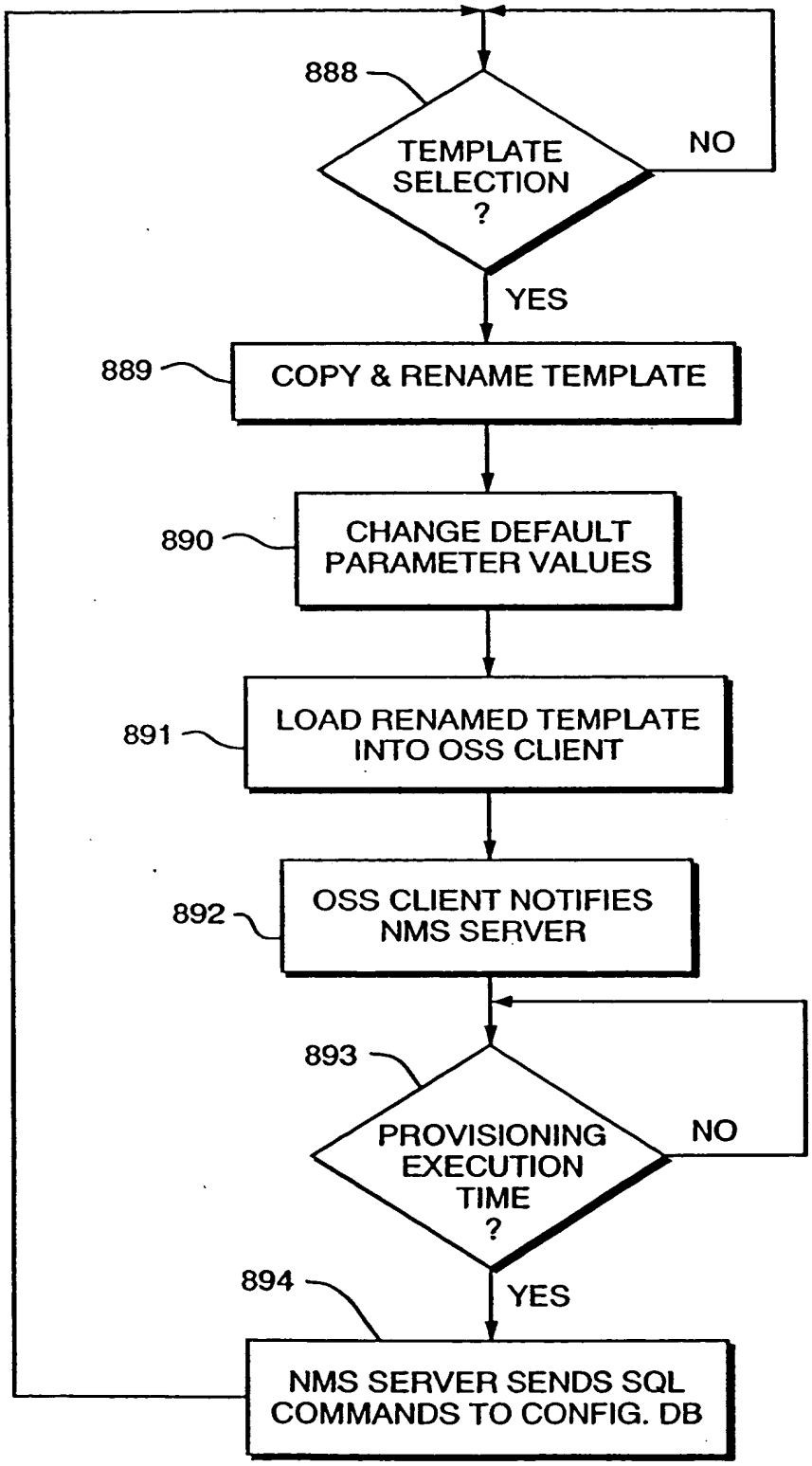
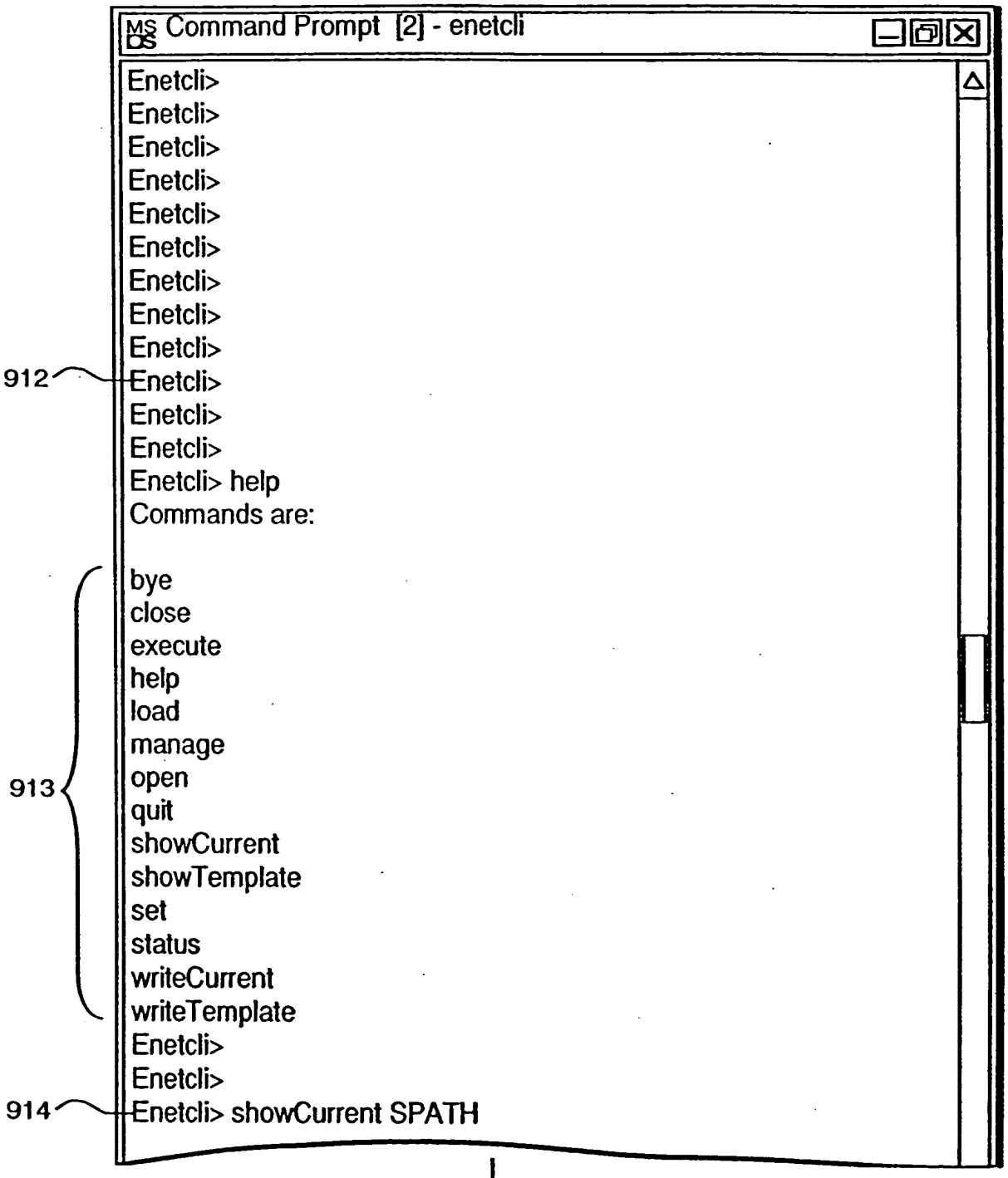

888
TEMPLATE SELECTION ?
NO
YES
889
COPY & RENAME TEMPLATE
890
CHANGE DEFAULT PARAMETER VALUES
891
LOAD RENAMED TEMPLATE INTO OSS CLIENT
892
OSS CLIENT NOTIFIES NMS SERVER
893
PROVISIONING EXECUTION TIME ?
NO
894
YES
NMS SERVER SENDS SQL COMMANDS TO CONFIG. DB

FIG. 31



TO FIG. 3K

FIG. 3J

FROM FIG. 3J

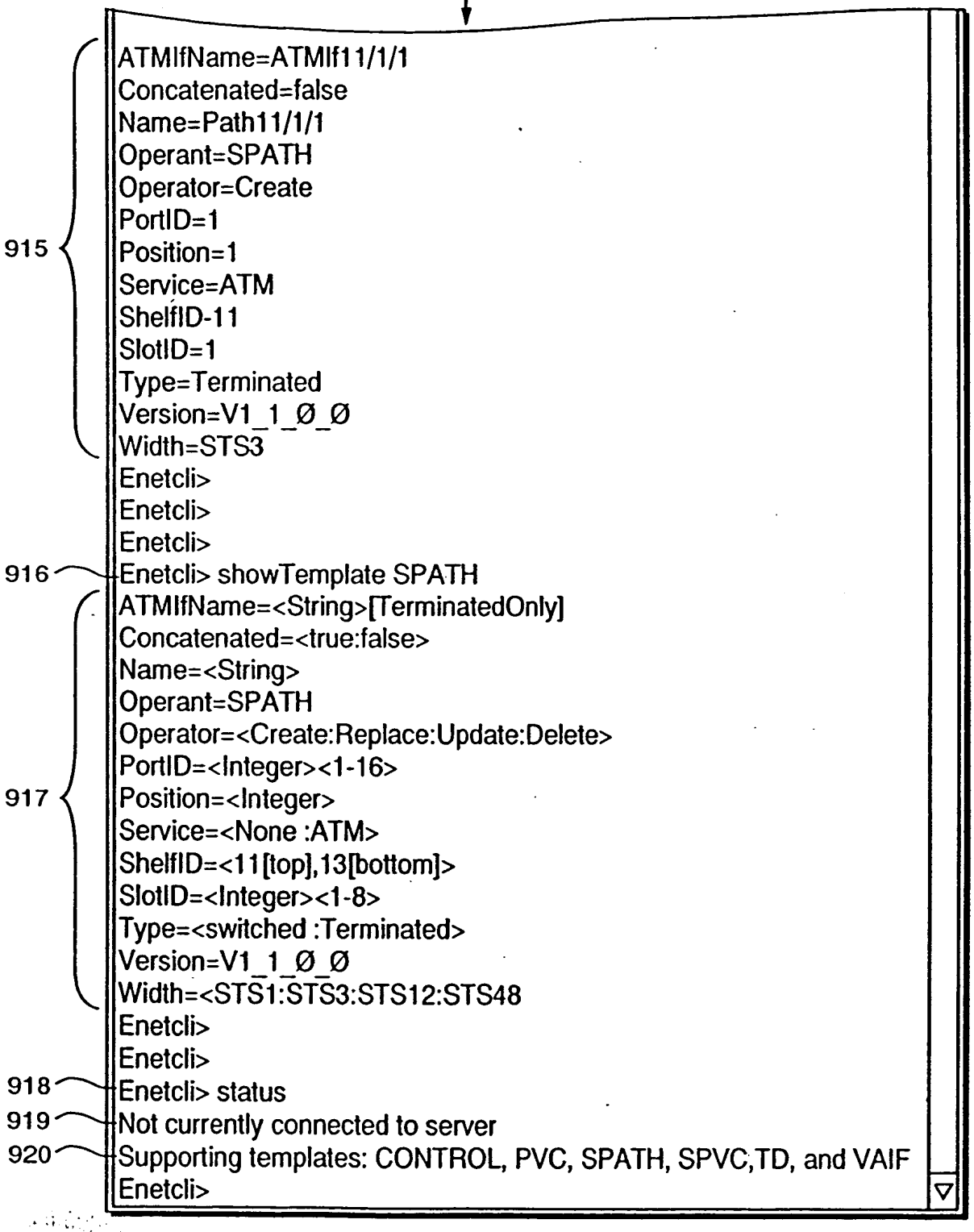


FIG. 3K

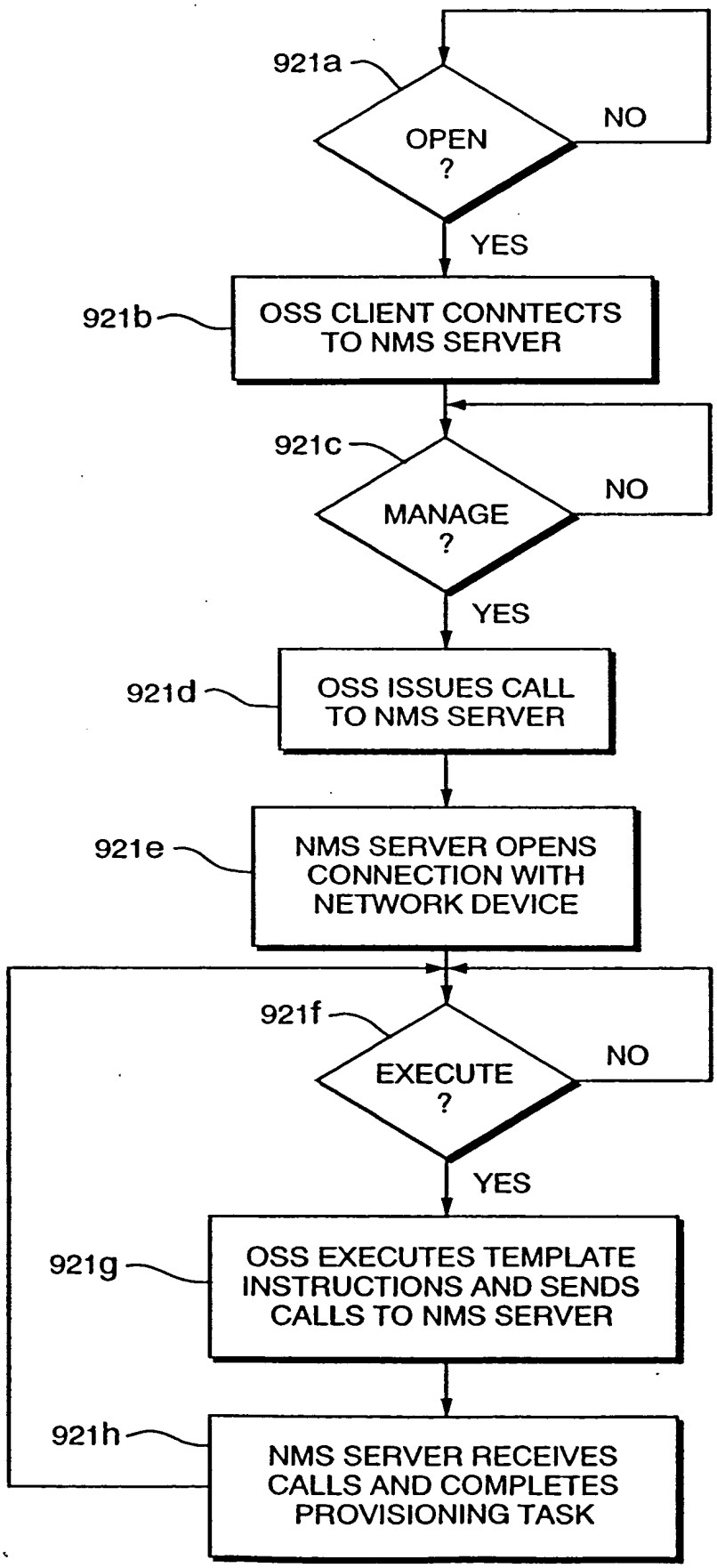

921a
OPEN ?
NO
YES
921b
OSS CLIENT CONNTECTS TO NMS SERVER
921c
MANAGE ?
NO
YES
921d
OSS ISSUES CALL TO NMS SERVER
921e
NMS SERVER OPENS CONNECTION WITH NETWORK DEVICE
921f
EXECUTE ?
NO
YES
921g
OSS EXECUTES TEMPLATE INSTRUCTIONS AND SENDS CALLS TO NMS SERVER
921h
NMS SERVER RECEIVES CALLS AND COMPLETES PROVISIONING TASK

FIG. 3L

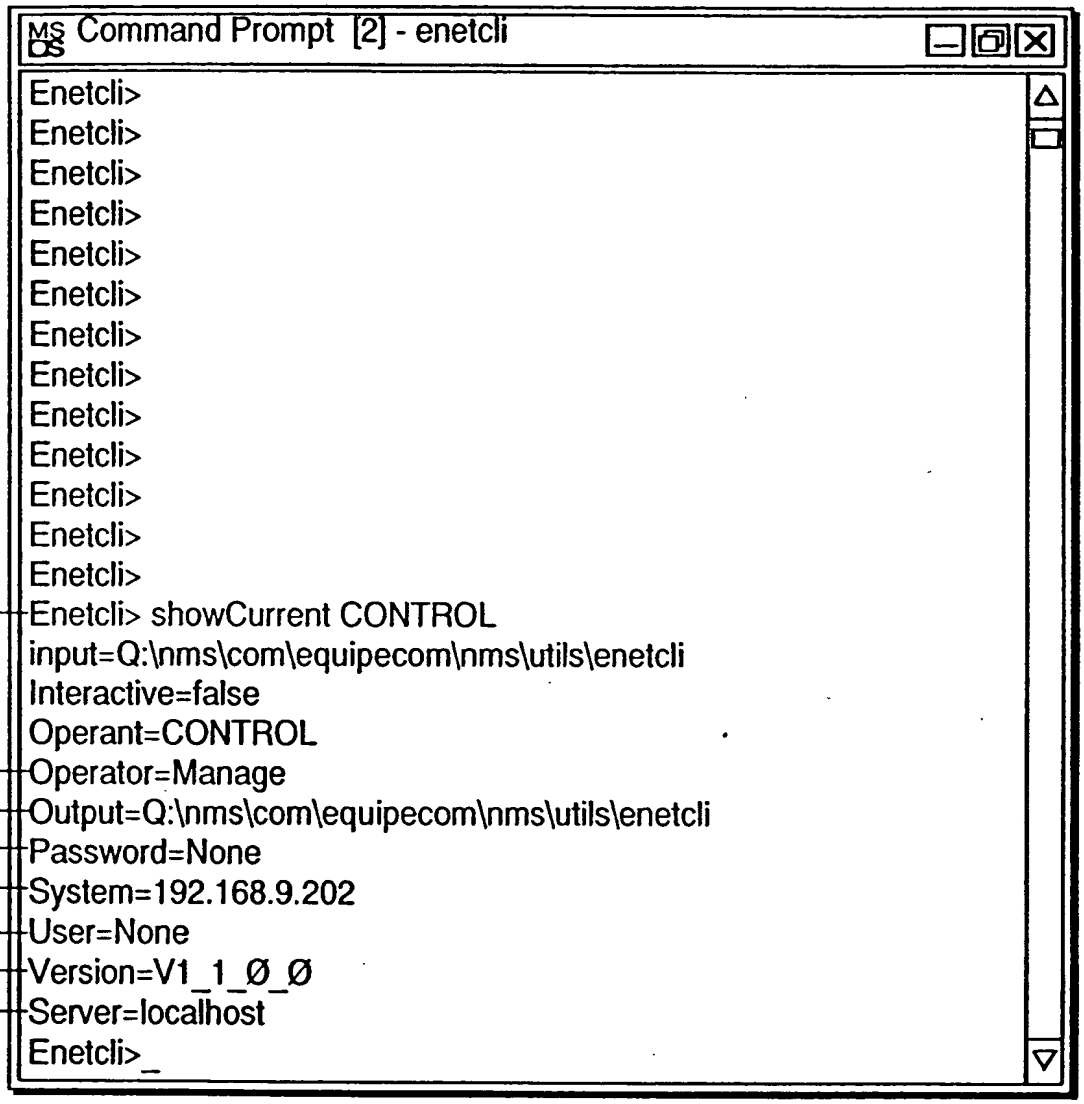

MS Command Prompt [2] - enetcli
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
Enetcli>
922
Enetcli> showCurrent CONTROL
input=Q:\nms\com\equipecom\nms\utils\enetcli
Interactive=false
Operant=CONTROL
923d
Operator=Manage
923f
Output=Q:\nms\com\equipecom\nms\utils\enetcli
923c
Password=None
923e
System=192.168.9.202
923b
User=None
923g
Version=V1_1_Ø_Ø
923a
Server=localhost
Enetcli>_

FIG. 3M

Operant=BATCH
Operator=Execute
Version=V1_1_0_0

924a ~ TASK1=execute-SPATH
924b ~ TASK2=execute-PVC
924c ~ TASK3=execute-SPVC
924d ~ TASK4=load-SPVC-spvc1
924e ~ TASK5=execute-SPVC
924f ~ TASK6=load-SPVC-spvc2
924e ~ TASK7=execute-SPVC

•
•
•

924g ~ TASK50=set-SPATH-PortID-3
924h ~ TASK51=execute-SPATH
924i ~ TASK52=set-SPATH-SlotID-2
924j ~ TASK53=execute-SPATH

FIG. 3N

925

Operant=BATCH
Operator=Execute
Version=V1_1_0_0
925a TASK1=execute-CONTROL
925b TASK2=execute-SPATH
925c TASK3=set-SPATH-PortID-3
925d TASK4=execute-SPATH
•
•
•
925e TASK61=set-CONTROL-System-192.168.9.201
925f TASK62=execute-CONTROL
925g TASK63=execute-SPATH
•
•
•
925h TASK108=close
925i TASK109=set-CONTROL-Server-Server1
925j TASK110=set-CONTROL-System-192.168.8.200
925k TASK111=execute-CONTROL
925l TASK112=execute-SPATH
•
•
•

FIG. 3O

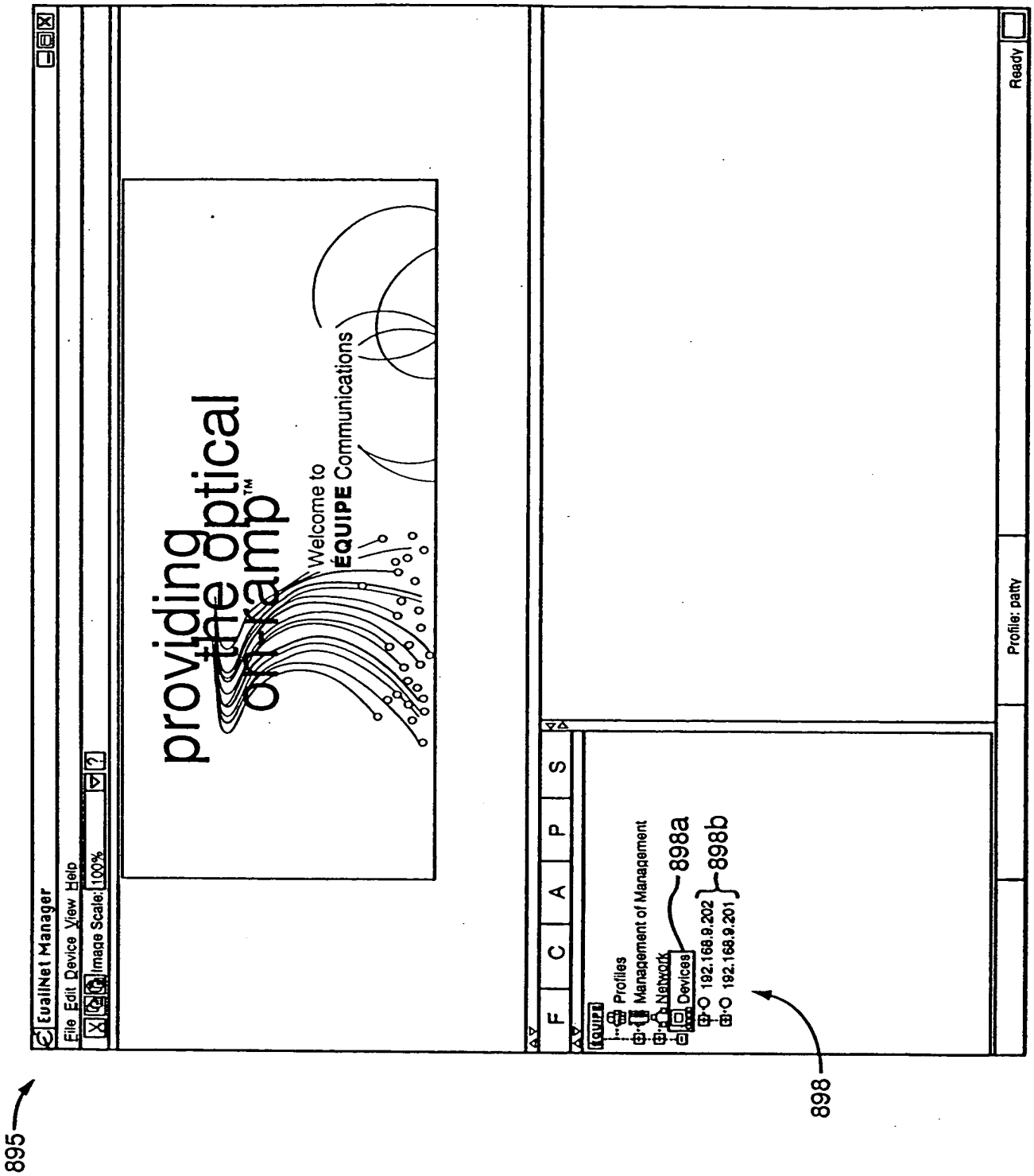

EuailNet Manager
File Edit Device View Help
Image Scale: 100%
providing the optical edge™
Welcome to EQUIPE Communications
F C A P S
Profiles
Management of Management Network
Devices
192.168.8.202
192.168.9.201
898a
898b
898
Ready
Profile: patty
895

FIG. 4A

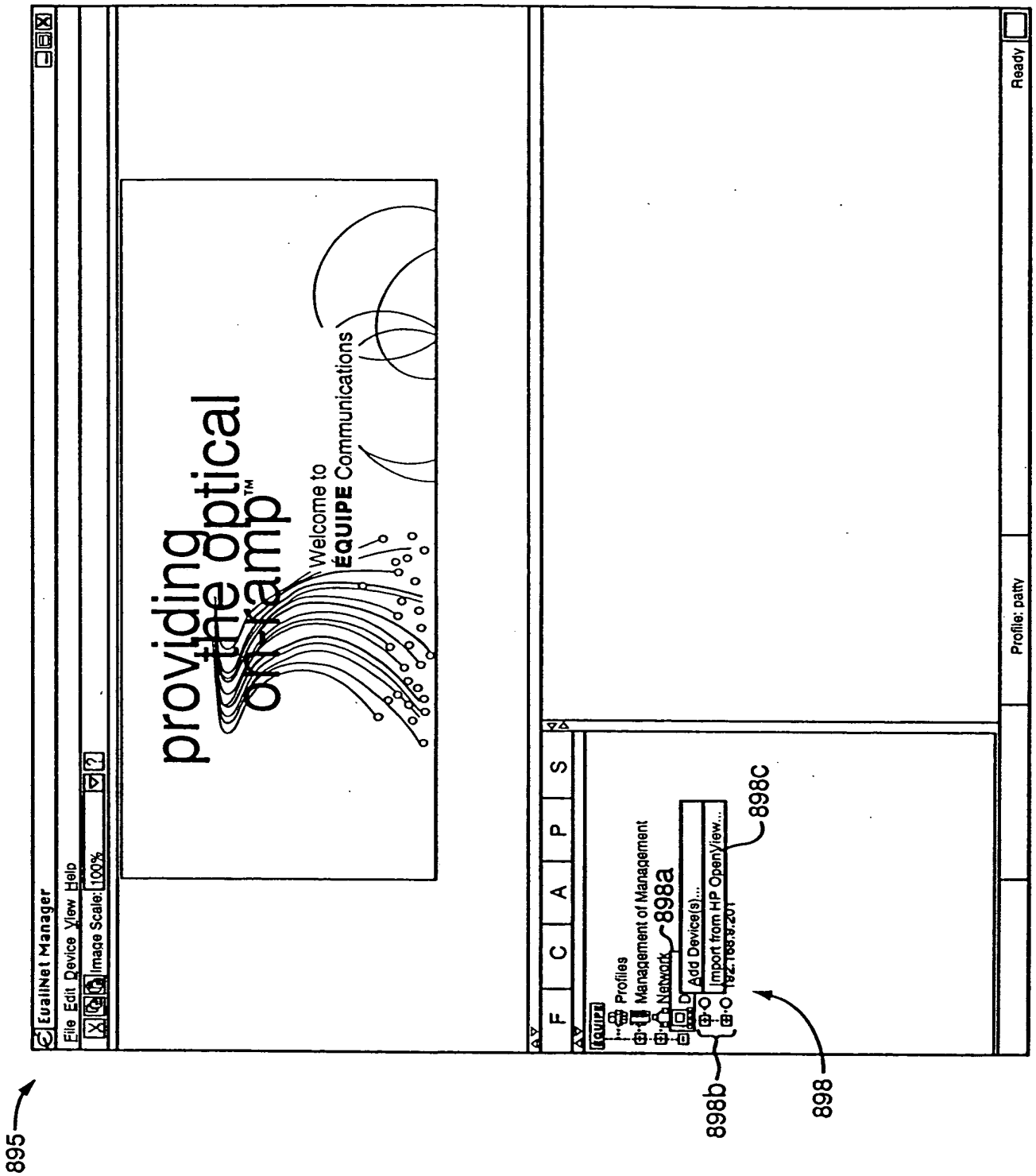

EualiNet Manager
File Edit Device View Help
Image Scale: 100%
providing the optical ramp™
Welcome to
EQUIPE Communications
F C A P S
Profiles
Management of Management Network
Add Device(s)...
Import from HP OpenView...
192.168.9.201
Profile: patty
Ready
895
898
898a
898b
898c

FIG. 4B

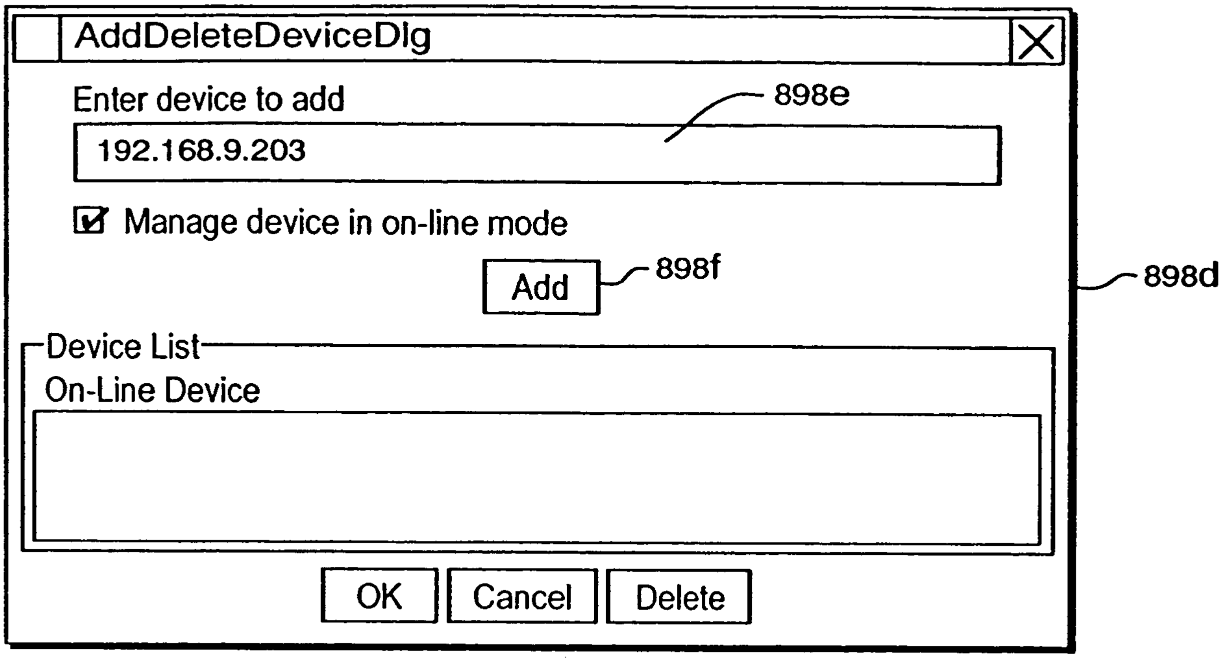


FIG. 4C

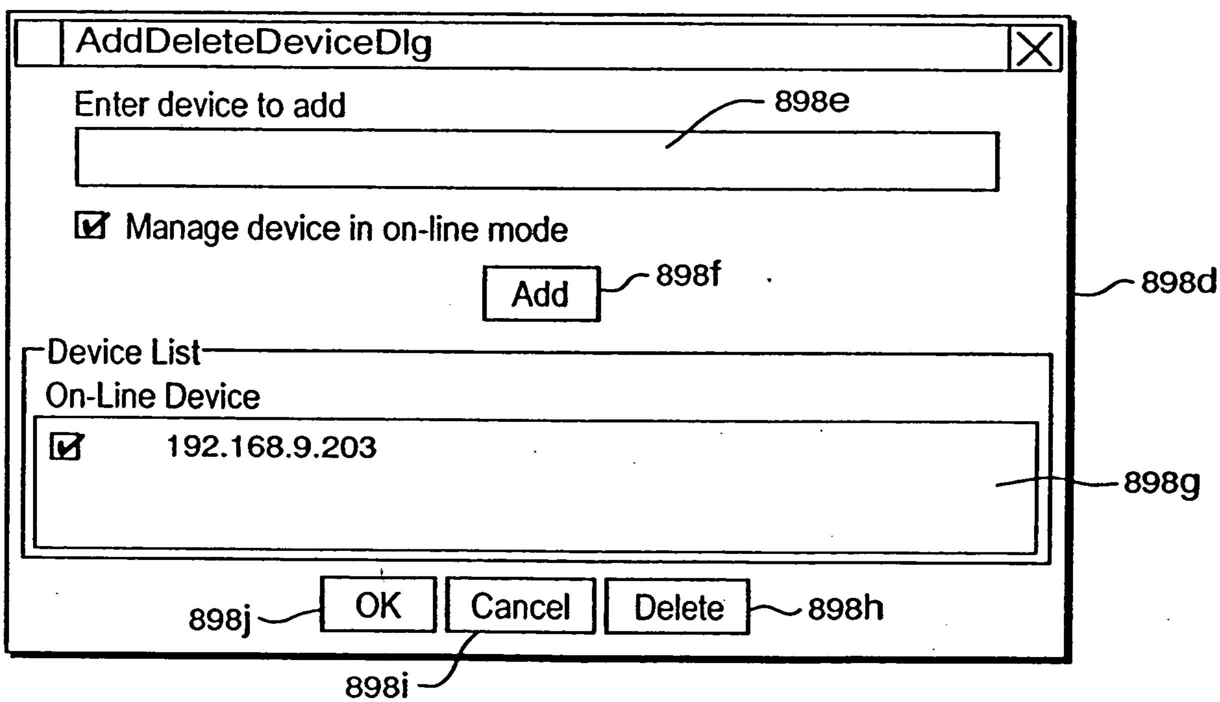


FIG. 4D

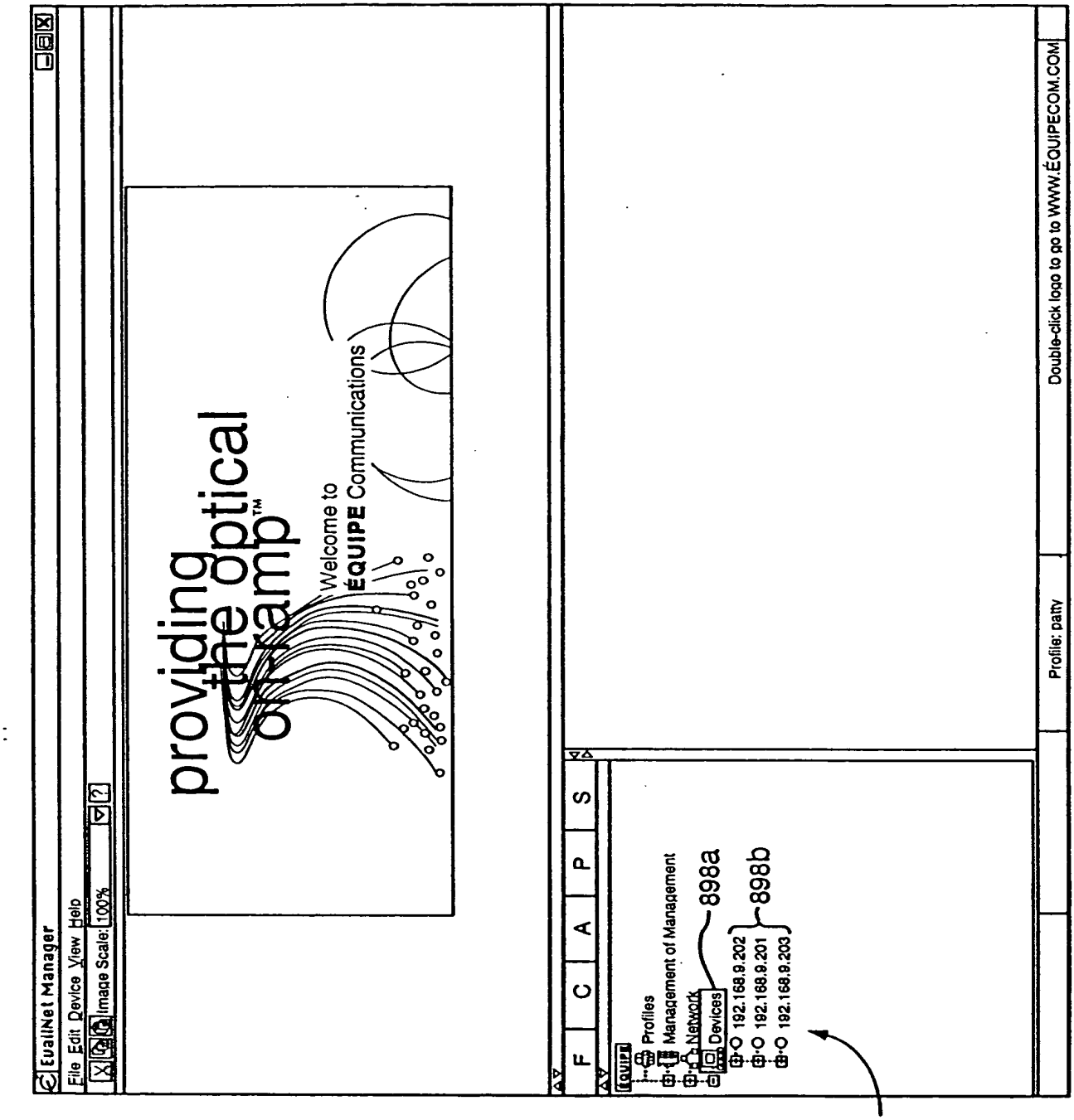

EvaliNet Manager
File Edit Device View Help
Image Scale: 100%
providing the optical on-ramp™
Welcome to EQUIPE Communications
F C A P S
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.203
898a
898b
898
895
Profile: patty
Double-click logo to go to WWW.EQUIPECOM.COM

FIG. 4E

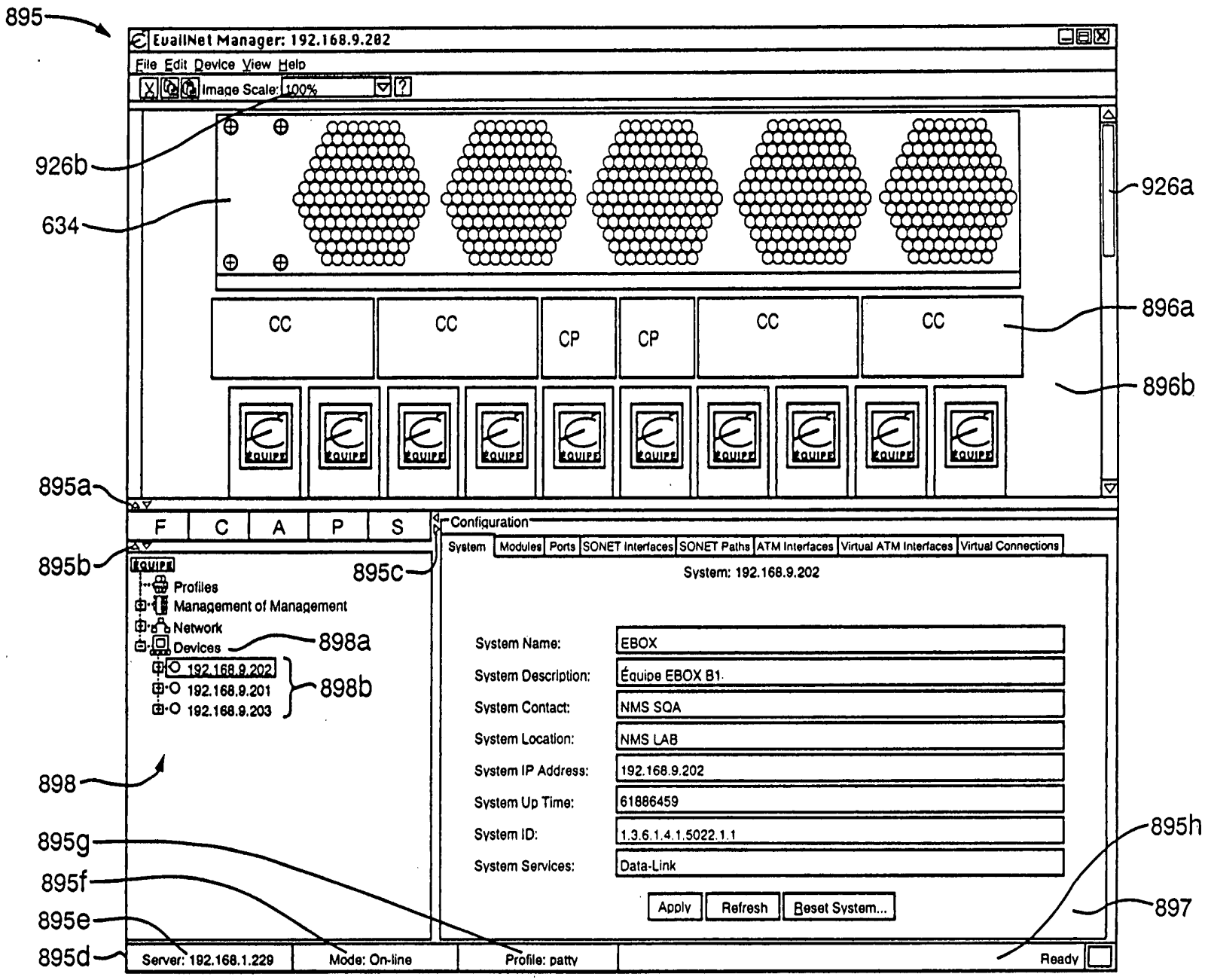

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
926b
634
926a
CC
CC
CP
CP
CC
CC
896a
896b
895a
F
C
A
P
S
895b
895c
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
192.168.9.201
192.168.9.203
898b
898
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 61886459
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
895g
895f
895e
895d
895h
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4F

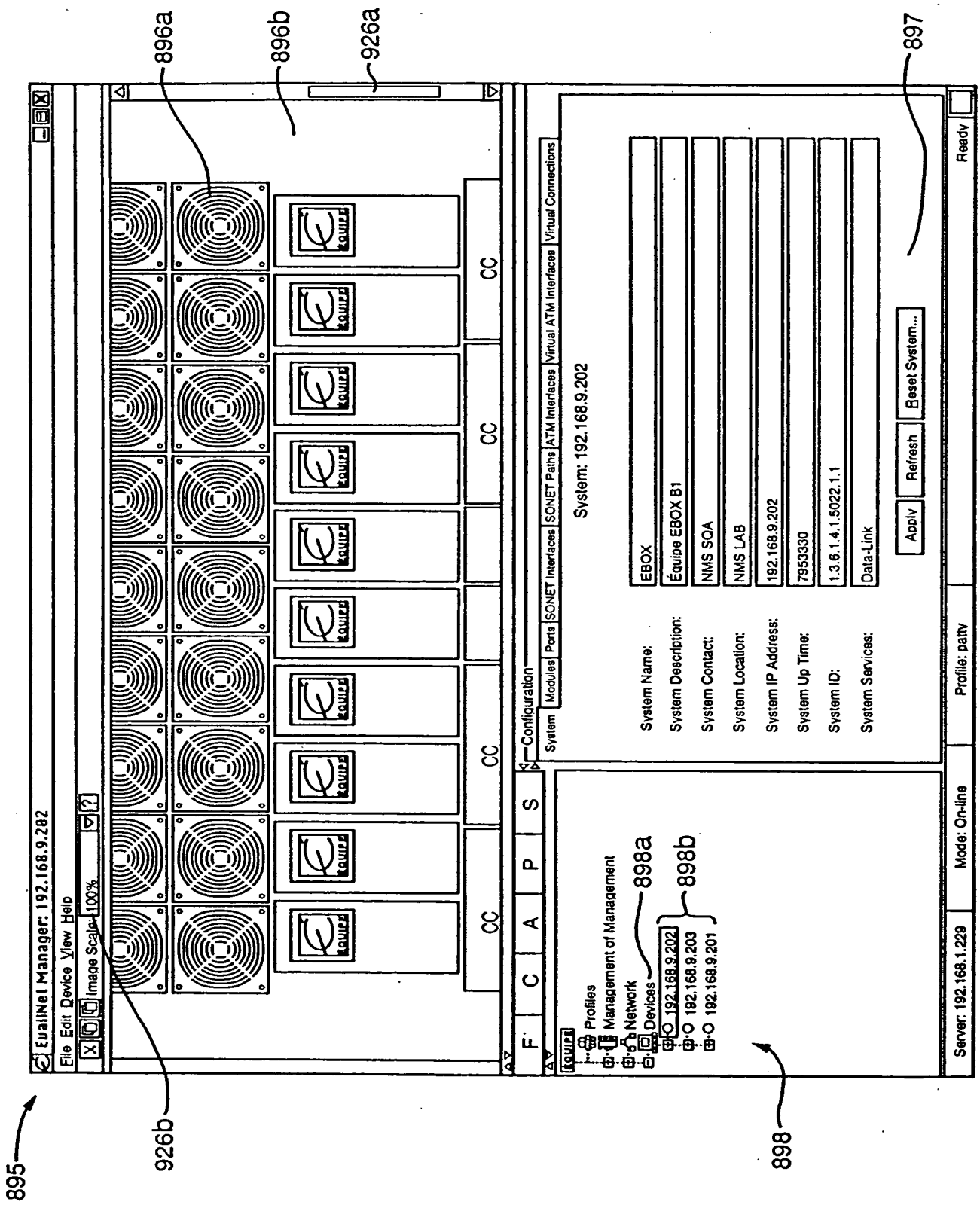

895
926b
896a
896b
926a
897
898
898a
898b
EualiNet Manager: 192.168.9.282
File Edit Device View Help
Image Scale 100%
Profiles
Management of Management Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4G

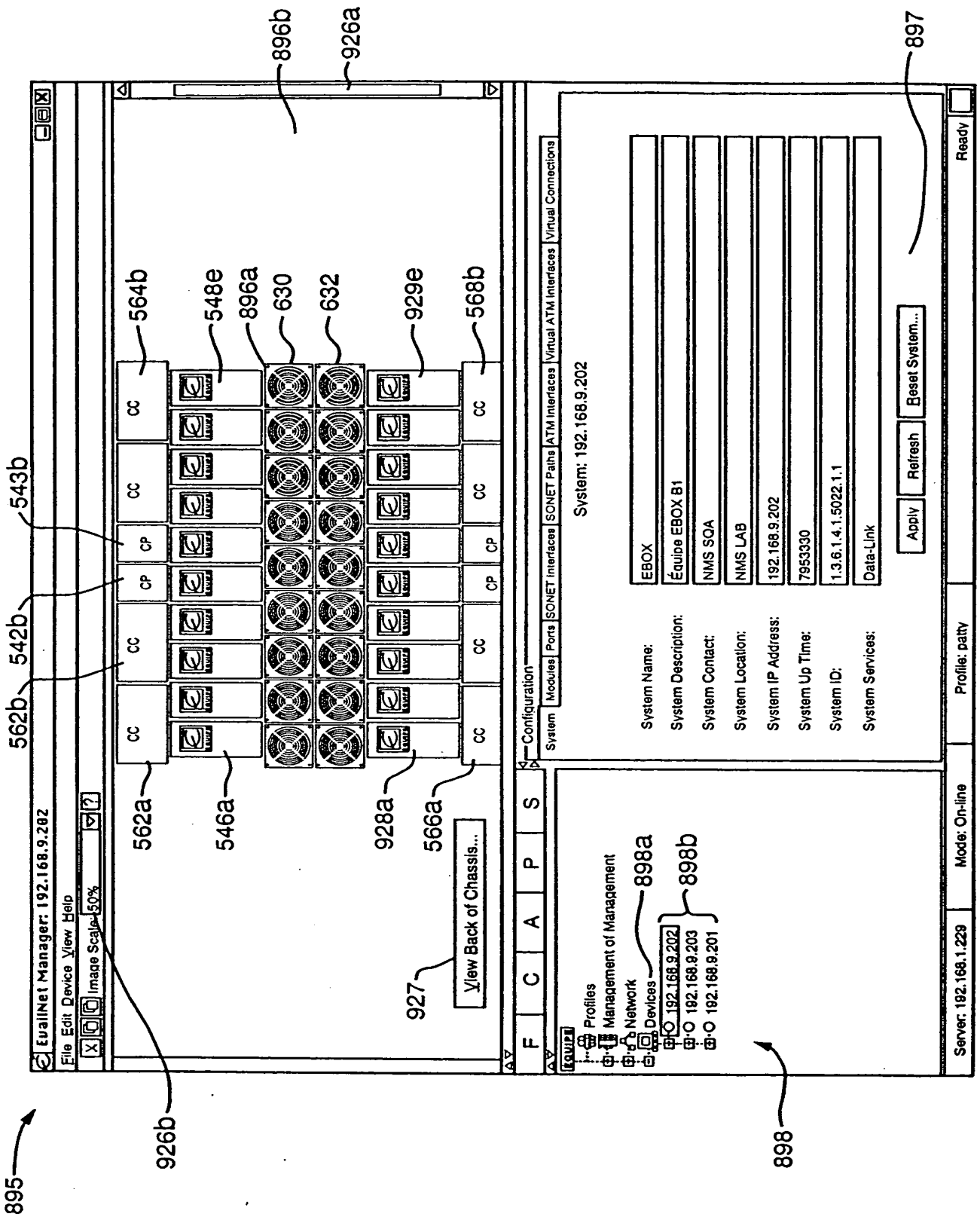

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 50%
F C A P S
View Back of Chassis...
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SOA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
Equip
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
926b
562a
562b
542b
543b
564b
546a
548e
896a
630
632
928a
929e
566a
568b
927
898
898a
898b
896b
926a
897

FIG. 4H

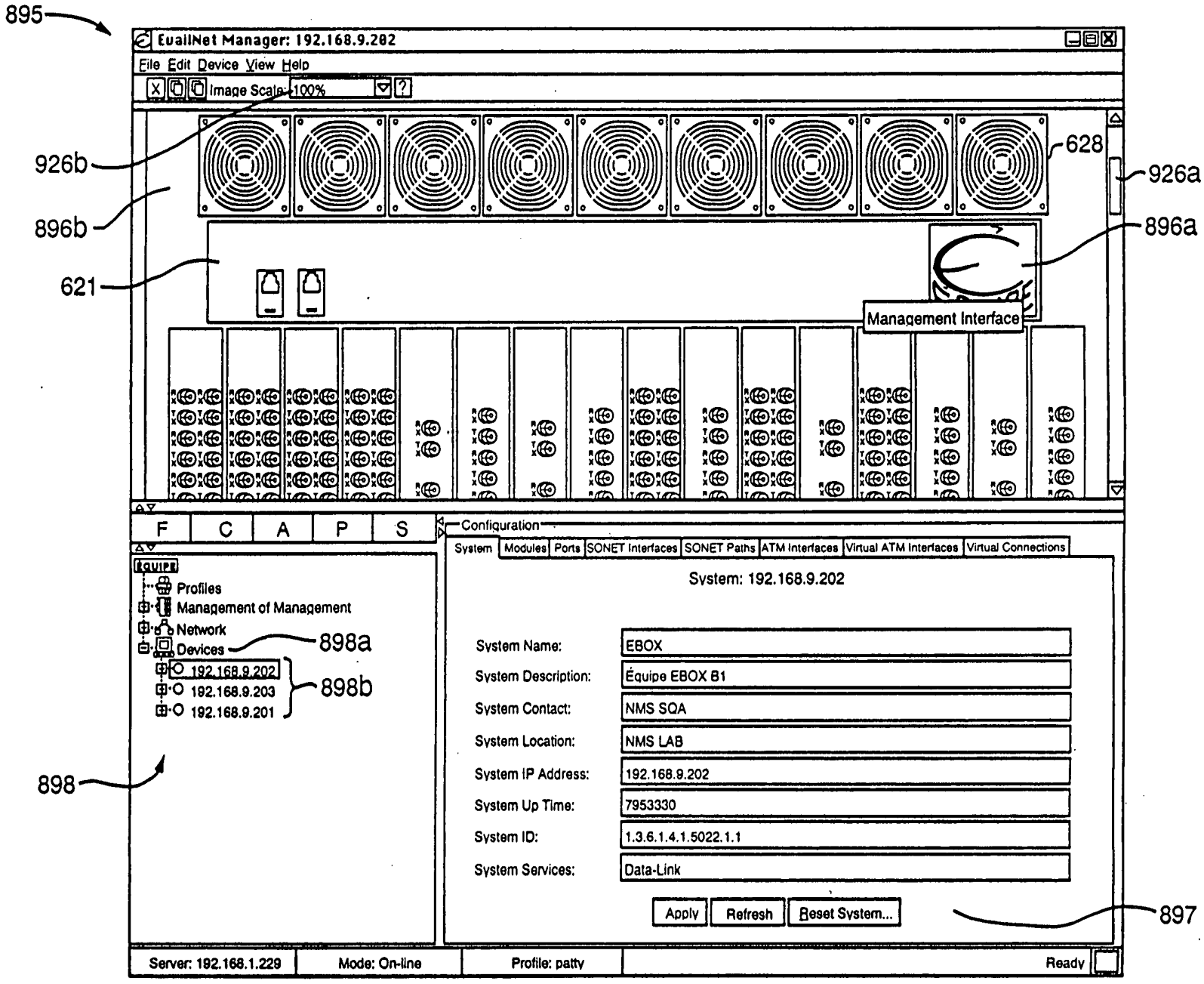


FIG. 4I

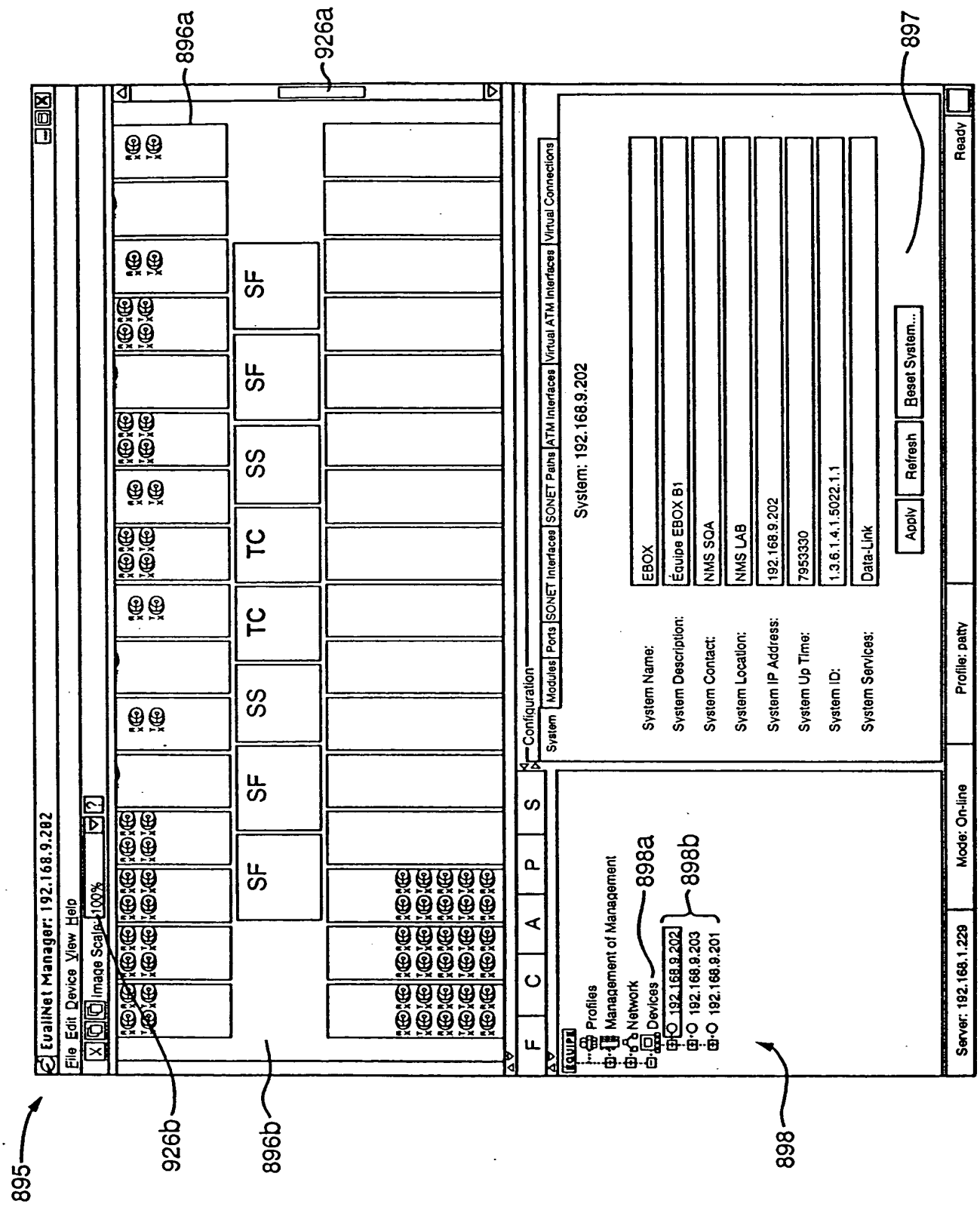

EvaliNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
SF
SF
SS
TC
TC
SS
SF
SF
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
EBOX
Equipe EBOX B1
NMS SOA
NMS LAB
192.168.9.202
7953330
1.3.6.1.4.1.5022.1.1
Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
896a
926a
926b
896b
898
898a
898b
897

FIG. 4J

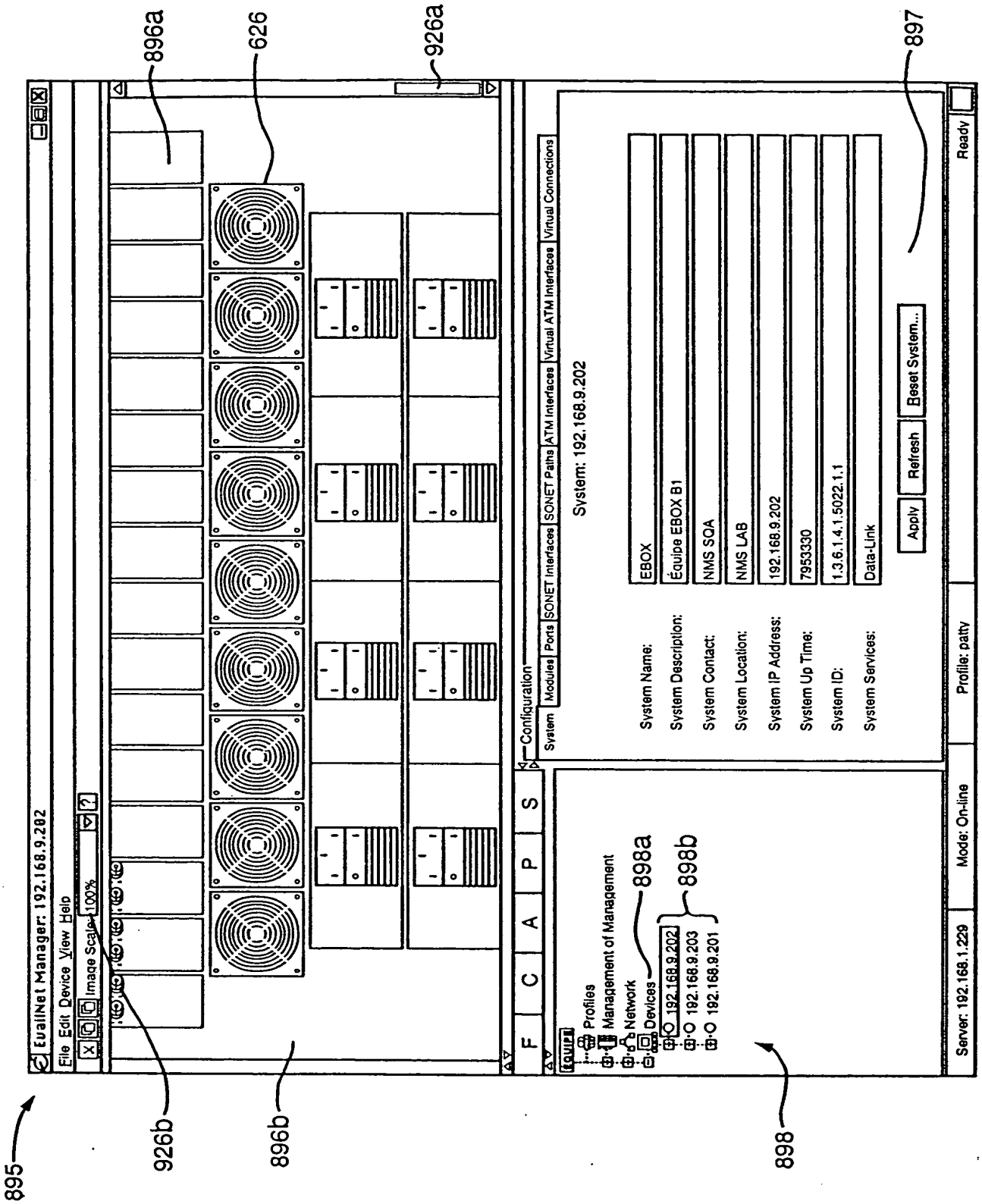

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
System Name: EBOX
System Description: Equipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
896a
626
926a
926b
896b
898
898a
898b
897

FIG. 4K

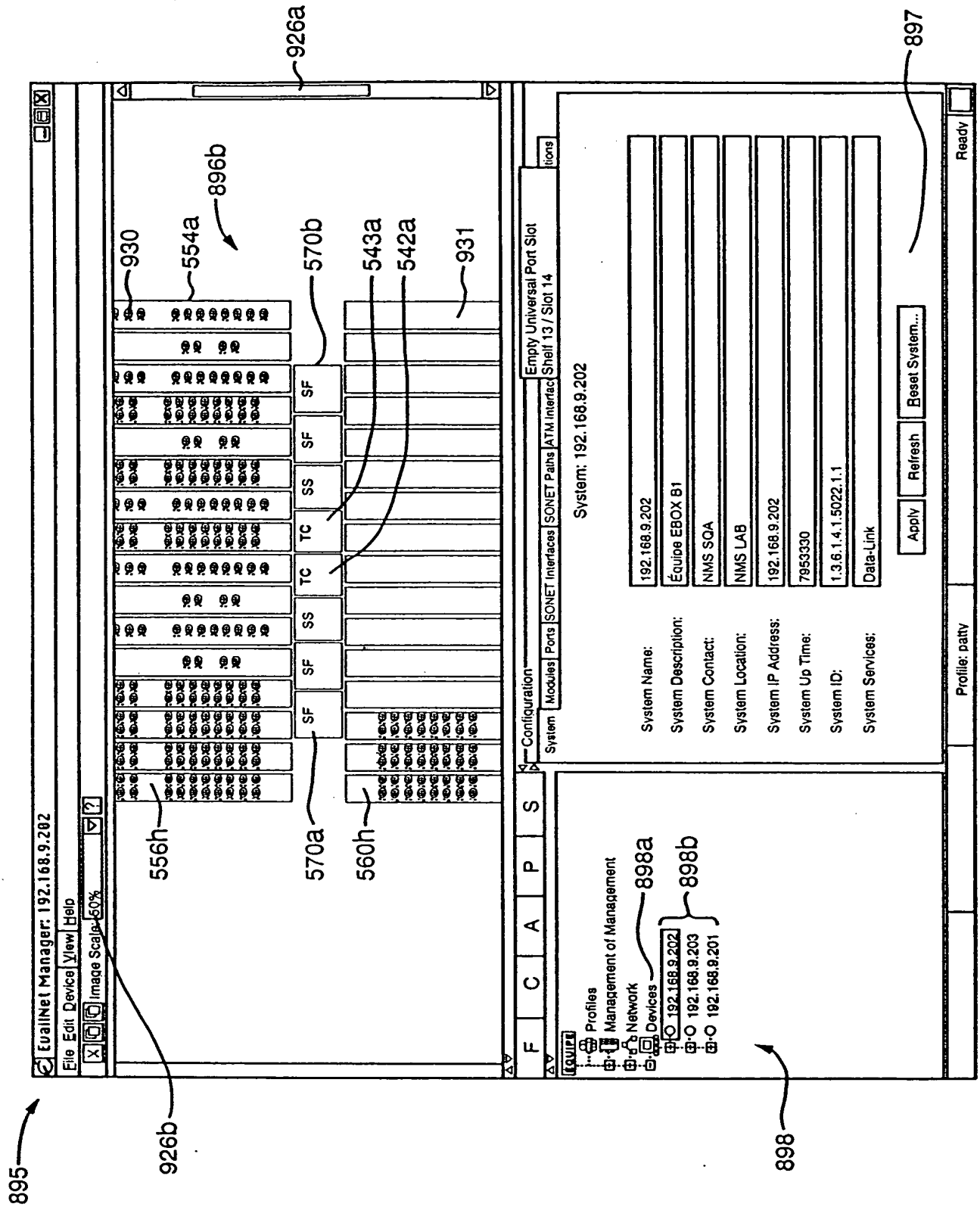

926a
896b
930
554a
570b
543a
542a
931
556h
570a
560h
926b
895
898
897
898a
898b
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale 50%
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfac
Empty Universal Port Slot
Shelf 13 / Slot 14
System: 192.168.9.202
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
192.168.9.202
Équipe EBOX B1
NMS SQA
NMS LAB
192.168.9.202
7953330
1.3.6.1.4.1.5022.1.1
Data-Link
Apply
Refresh
Reset System...
Ready
Profile: patty
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201

FIG. 4L

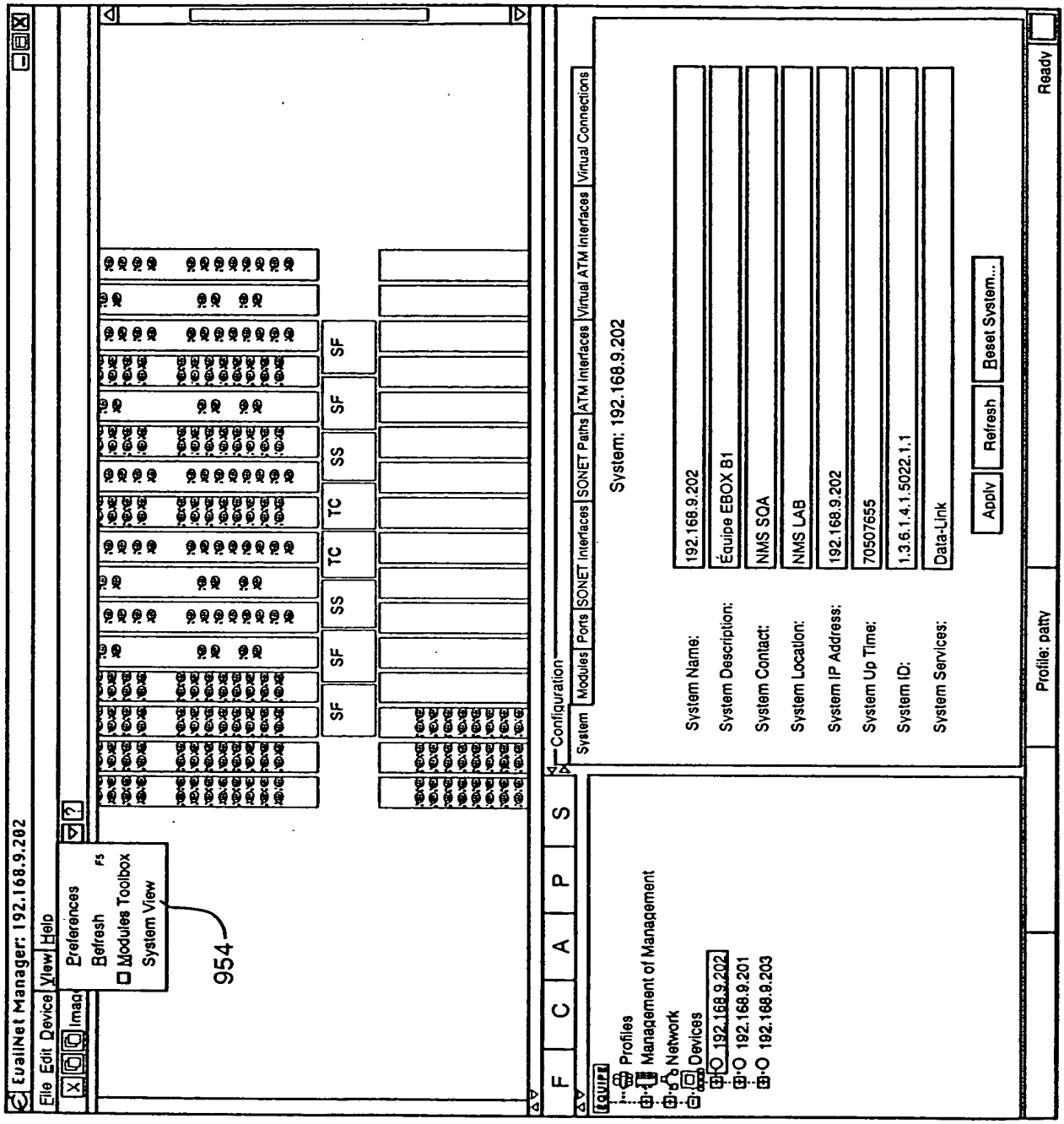

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Preferences
Refresh F5
Modules Toolbox
System View
954
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
System Name: 192.168.9.202
System Description: Equipe EBOX B1
System Contact: NMS SOA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 70507655
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.203
Profile: patty
Ready

FIG. 4M

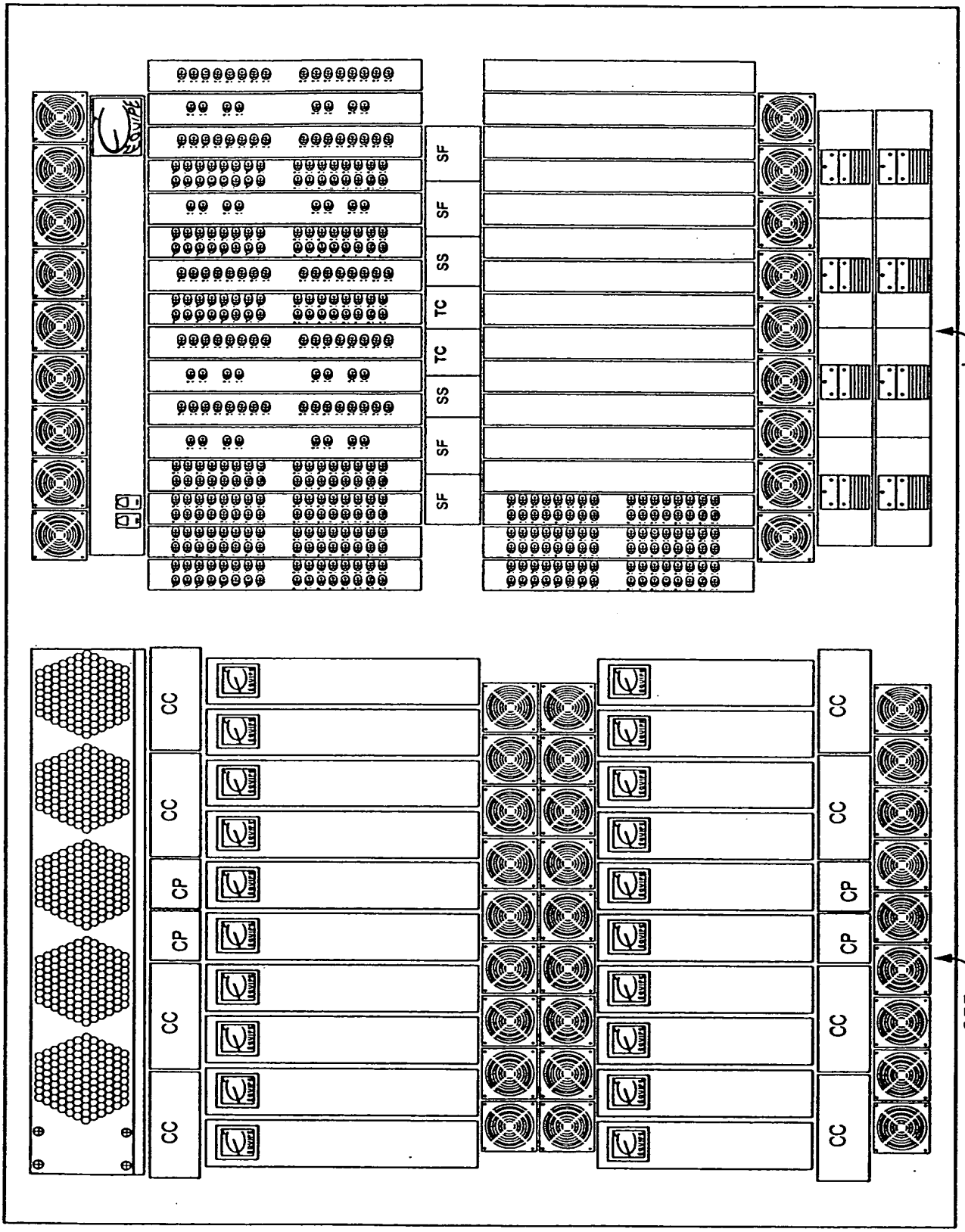


FIG. 4N

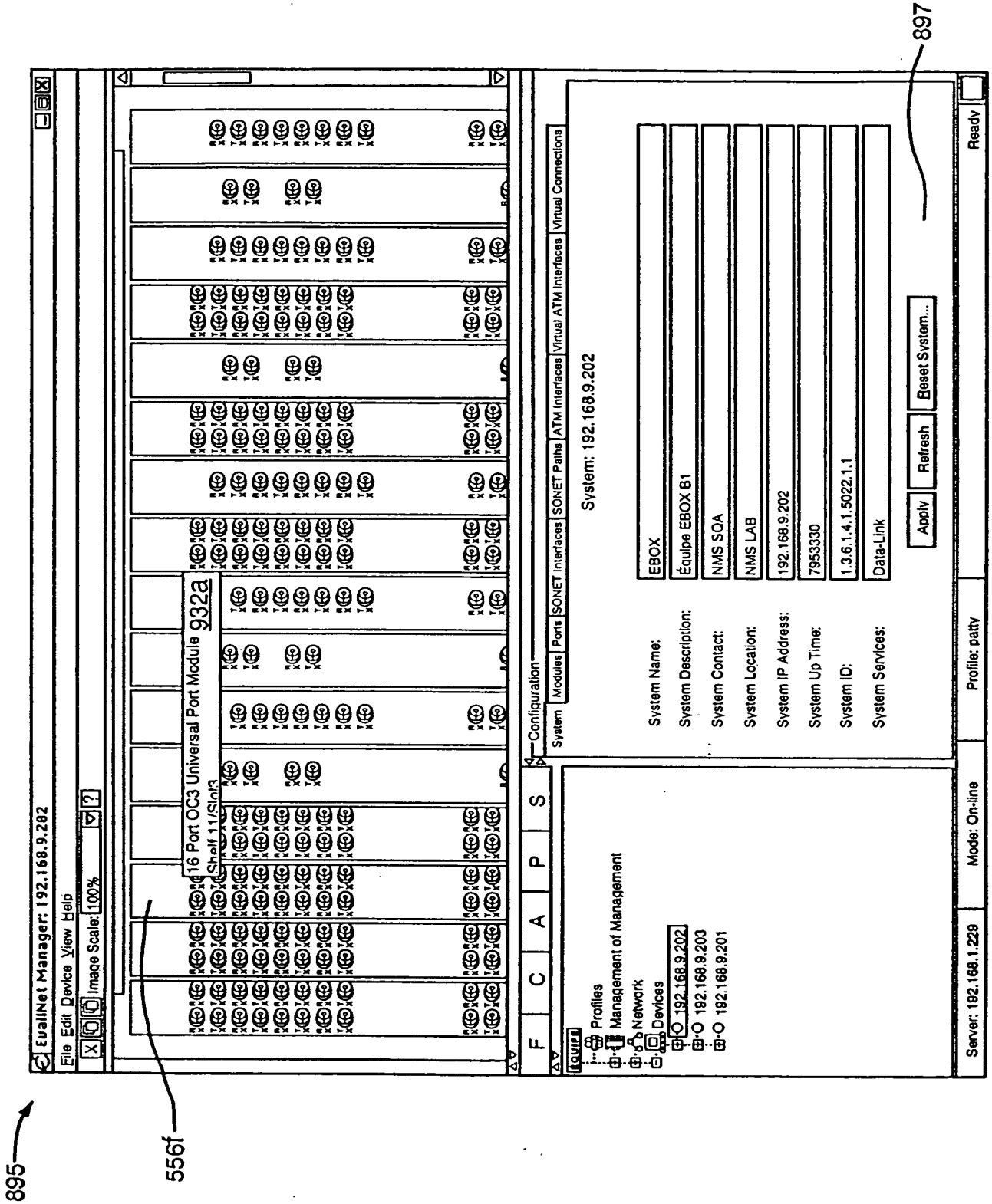

895
556f
897
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
16 Port OC3 Universal Port Module 932a
Shelf 11/Slot3
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 40

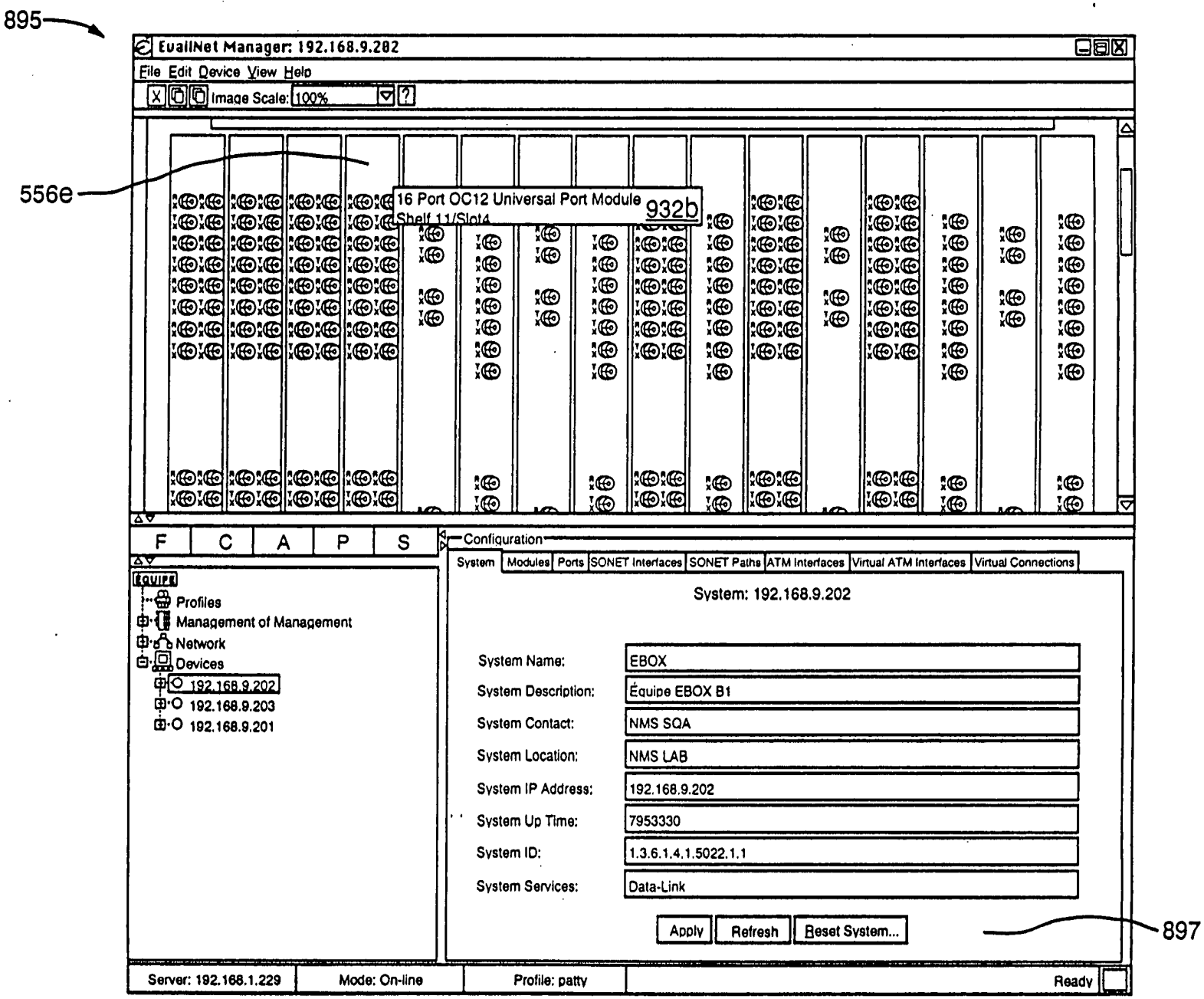

895
556e
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
16 Port OC12 Universal Port Module
Shelf 11/Slot4
932b
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4P

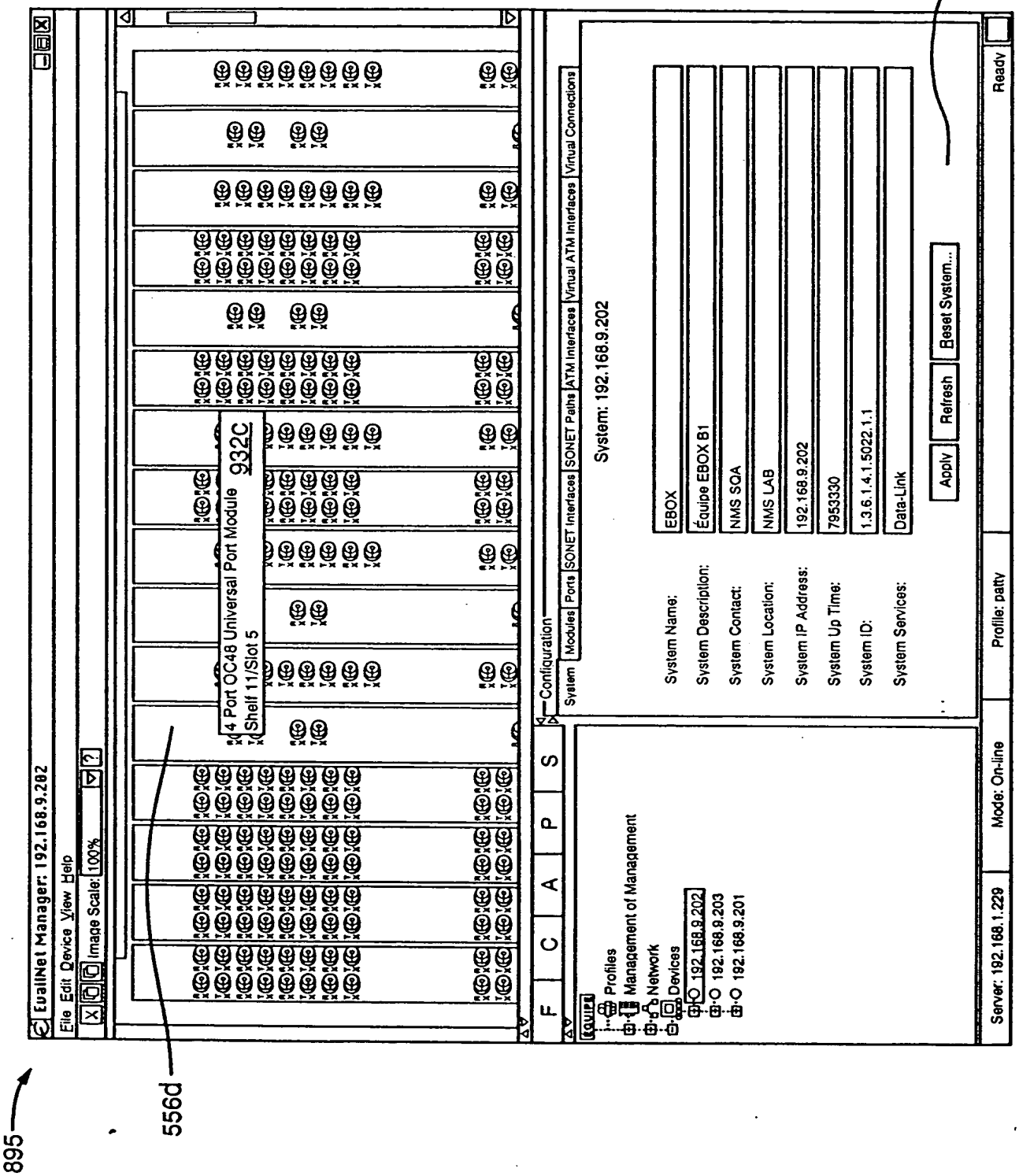

895
556d
897
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
4 Port OC48 Universal Port Module 932C
Shelf 11/Slot 5
F C A P S
Equipt
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4Q

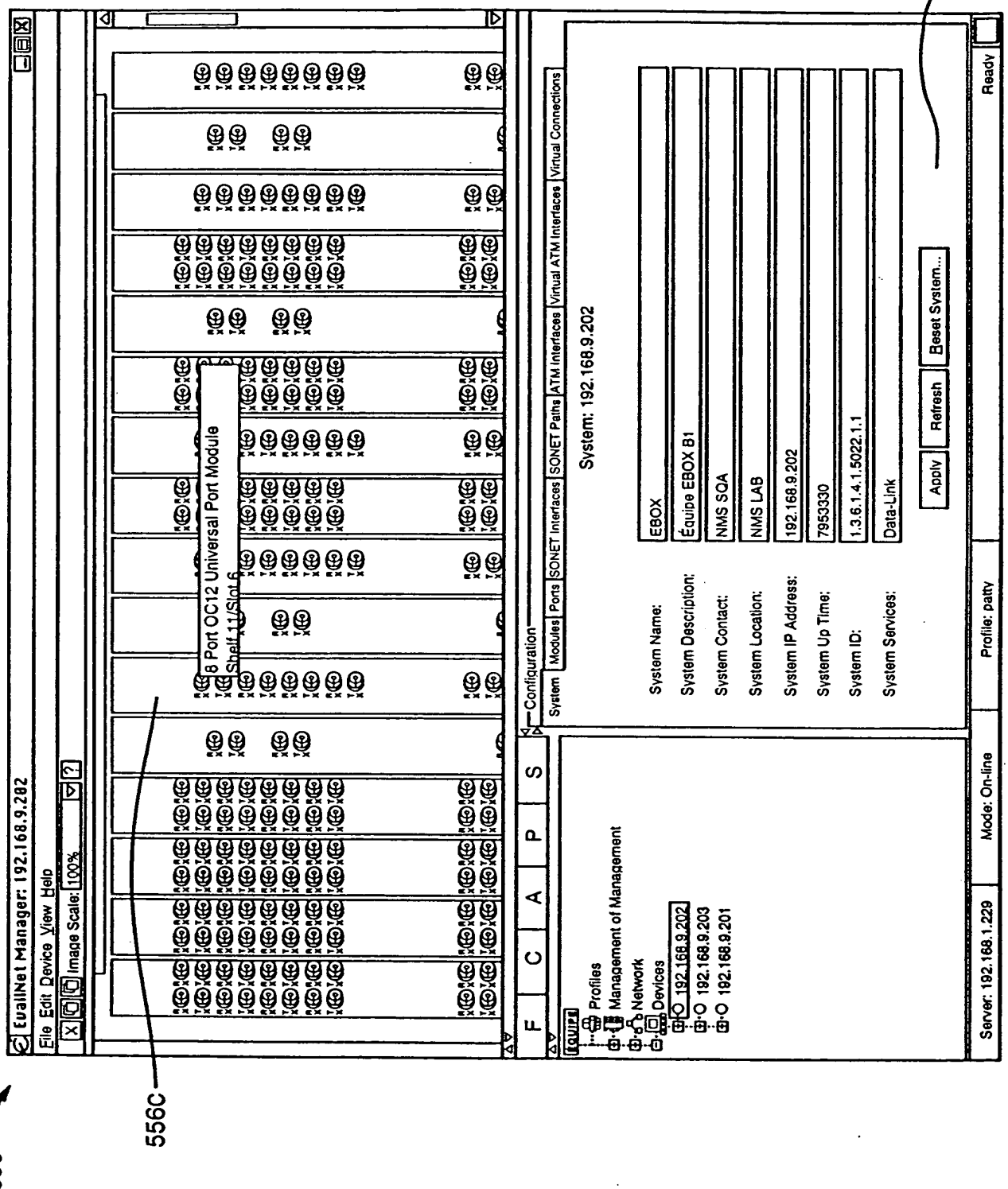

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
8 Port OC12 Universal Port Module
Shelf 11/Slot 6
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7953330
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
556C
897

FIG. 4R

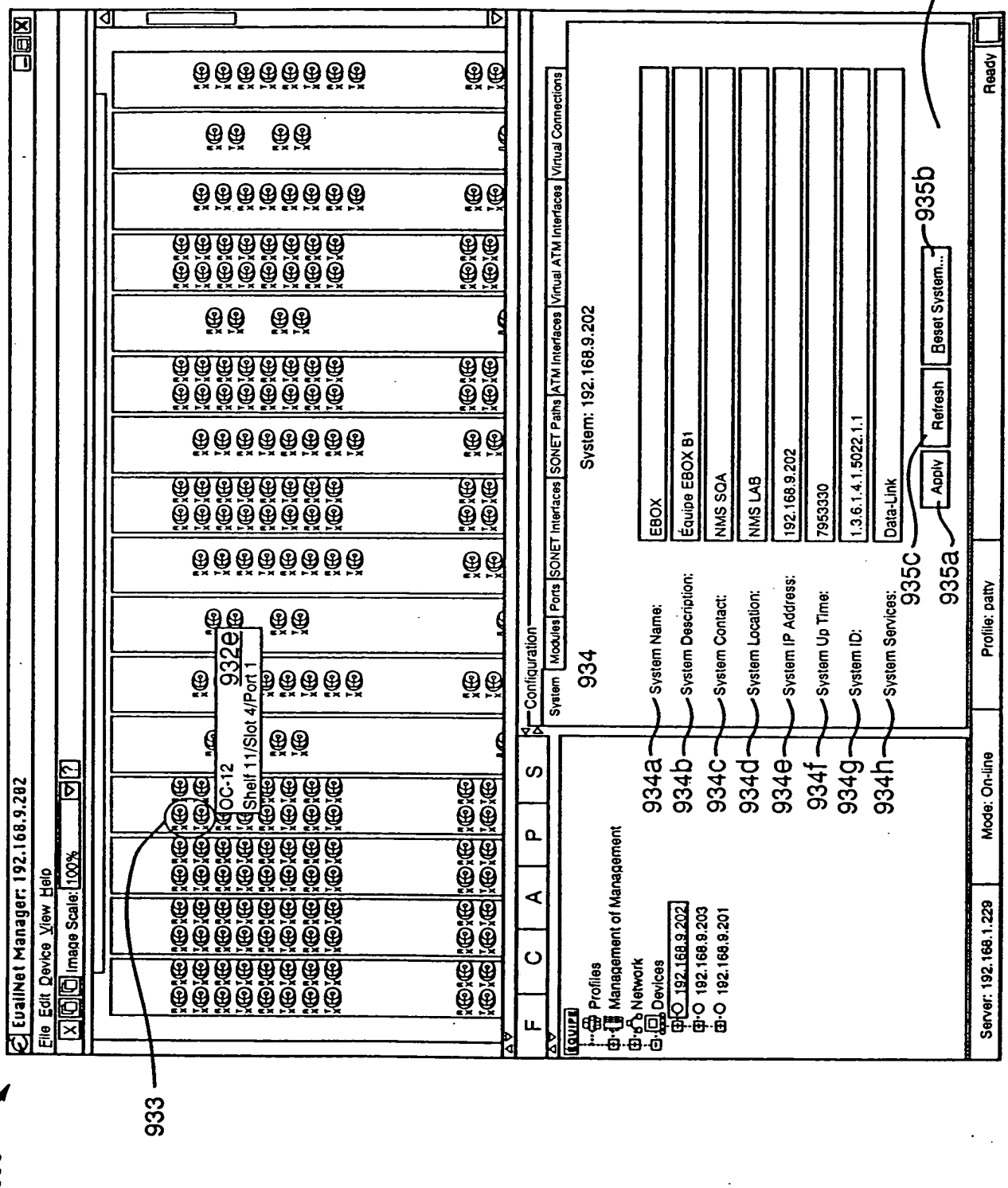

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
OC-12
Shelf 11/Slot 4/Port 1
932e
933
895
F C A P S
Equip
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.8.203
192.168.9.201
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
934
934a System Name:
934b System Description:
934c System Contact:
934d System Location:
934e System IP Address:
934f System Up Time:
934g System ID:
934h System Services:
EBOX
Équipe EBOX B1
NMS SQA
NMS LAB
192.168.9.202
7953330
1.3.6.1.4.1.5022.1.1
Data-Link
935c
935a
Apply
Refresh
Reset System...
935b
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4S

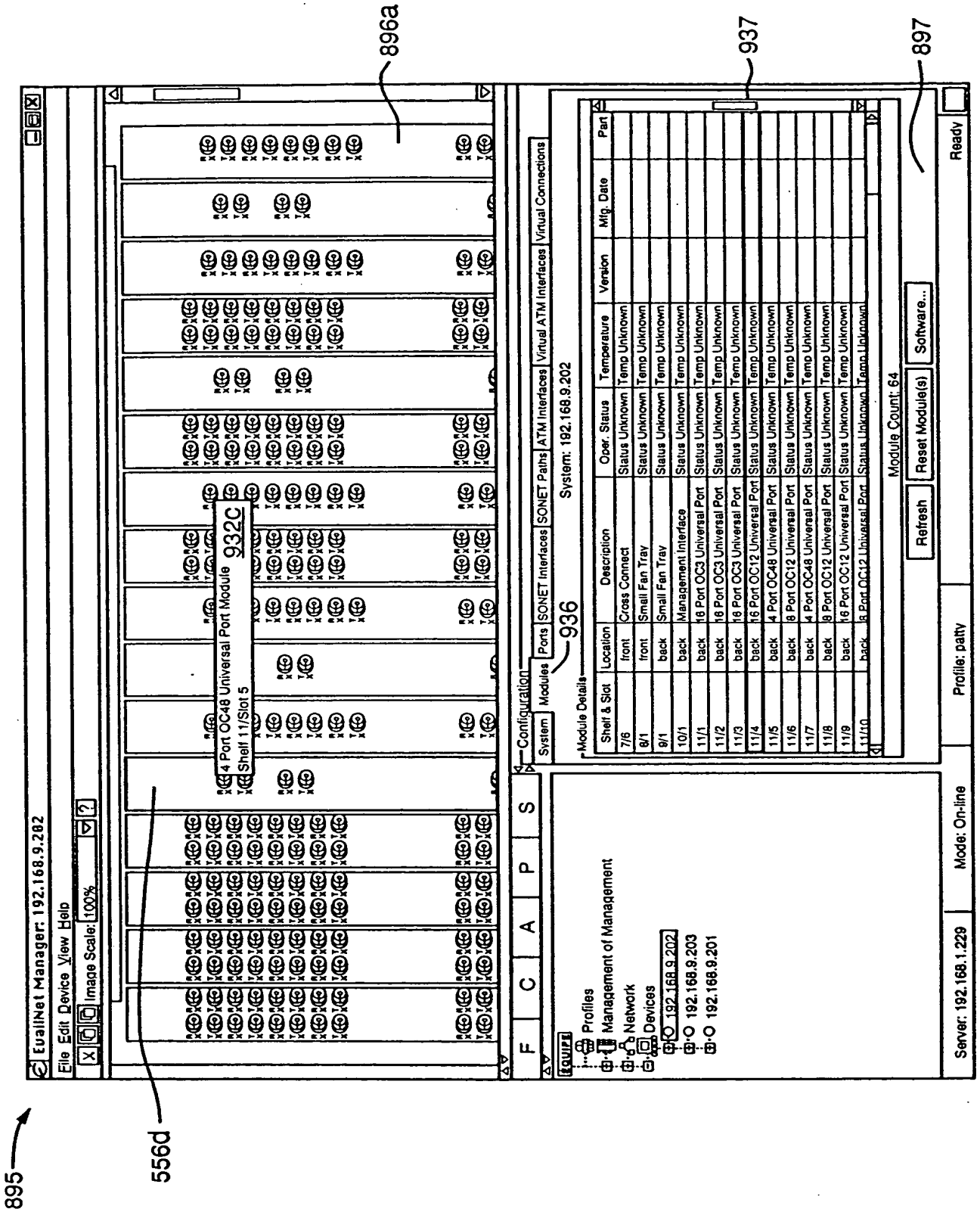

896a
937
897
895
556d
932c
936
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
4 Port OC48 Universal Port Module
Shelf 11/Slot 5
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Module Details
Module Count: 64
Refresh
Reset Module(s)
Software...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4T

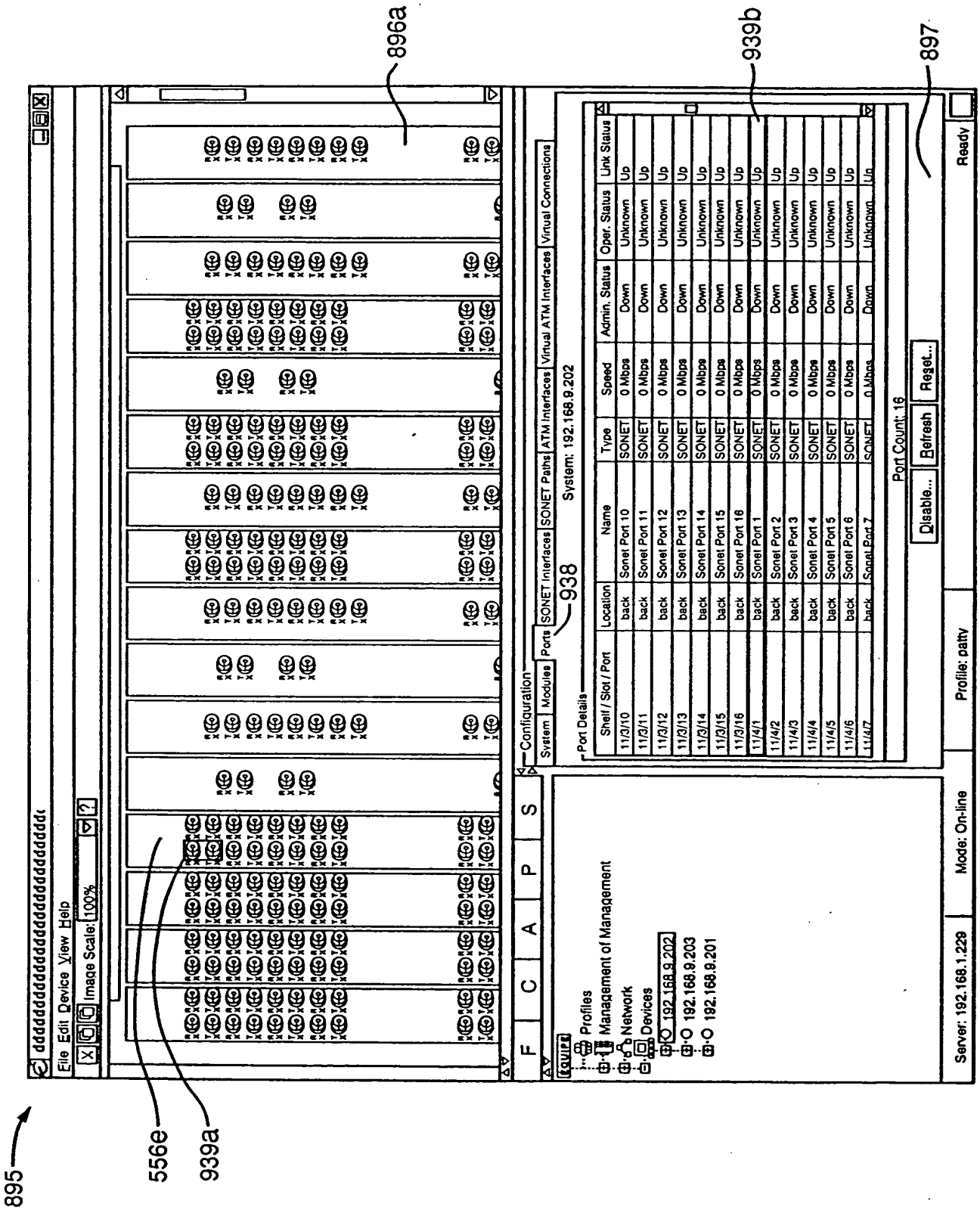

895
896a
939b
897
556e
939a
938
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
Port Details
Shelf / Slot / Port
Location
Name
Type
Speed
Admin. Status
Oper. Status
Link Status
11/3/10 back Sonet Port 10 SONET 0 Mbps Down Unknown Up
11/3/11 back Sonet Port 11 SONET 0 Mbps Down Unknown Up
11/3/12 back Sonet Port 12 SONET 0 Mbps Down Unknown Up
11/3/13 back Sonet Port 13 SONET 0 Mbps Down Unknown Up
11/3/14 back Sonet Port 14 SONET 0 Mbps Down Unknown Up
11/3/15 back Sonet Port 15 SONET 0 Mbps Down Unknown Up
11/3/16 back Sonet Port 16 SONET 0 Mbps Down Unknown Up
11/4/1 back Sonet Port 1 SONET 0 Mbps Down Unknown Up
11/4/2 back Sonet Port 2 SONET 0 Mbps Down Unknown Up
11/4/3 back Sonet Port 3 SONET 0 Mbps Down Unknown Up
11/4/4 back Sonet Port 4 SONET 0 Mbps Down Unknown Up
11/4/5 back Sonet Port 5 SONET 0 Mbps Down Unknown Up
11/4/6 back Sonet Port 6 SONET 0 Mbps Down Unknown Up
11/4/7 back Sonet Port 7 SONET 0 Mbps Down Unknown Up
Port Count: 16
Disable... Refresh Reset...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4U

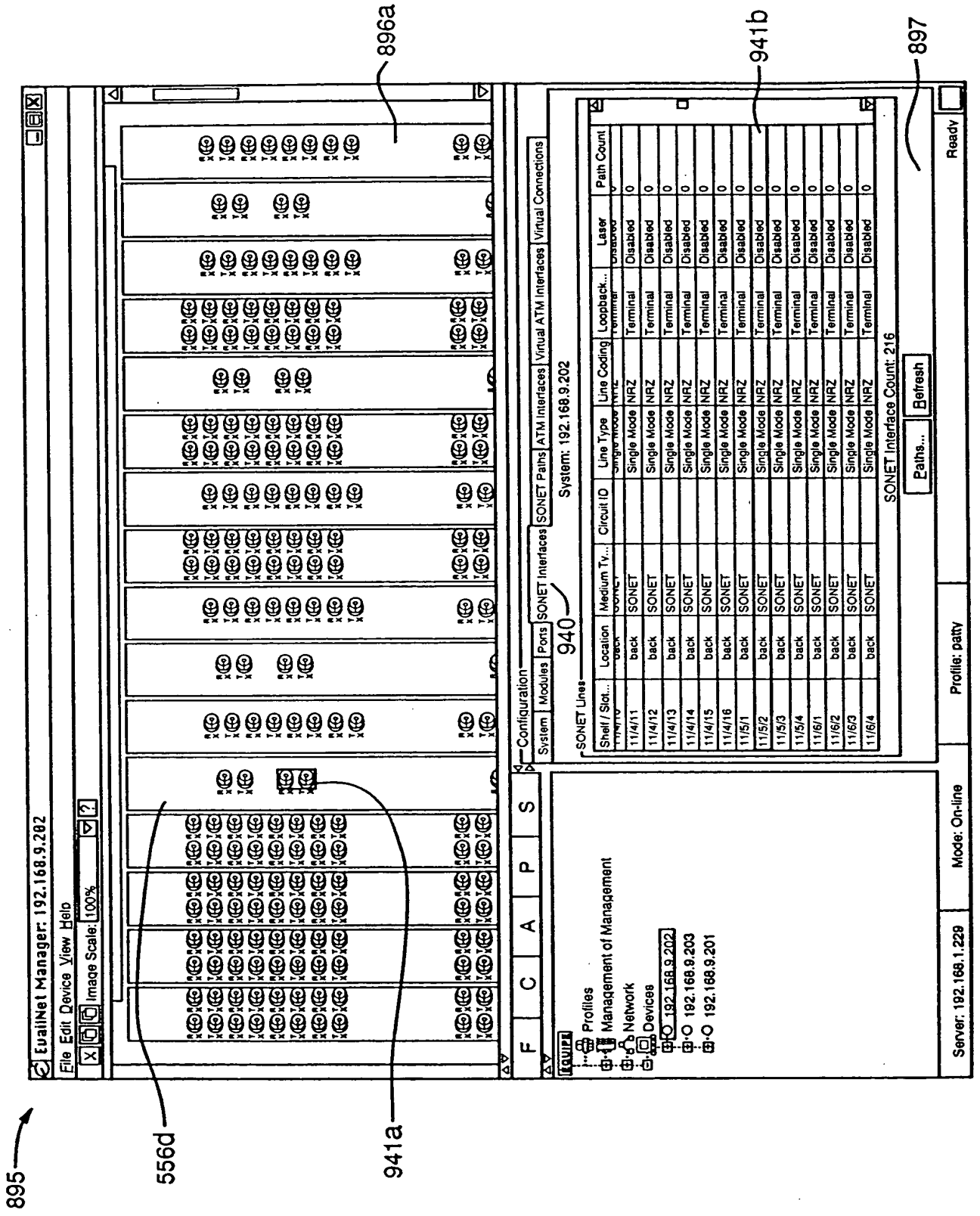

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
SONET Lines
SONET Interface Count: 216
Paths... Refresh
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
556d
941a
940
896a
941b
897

FIG. 4V

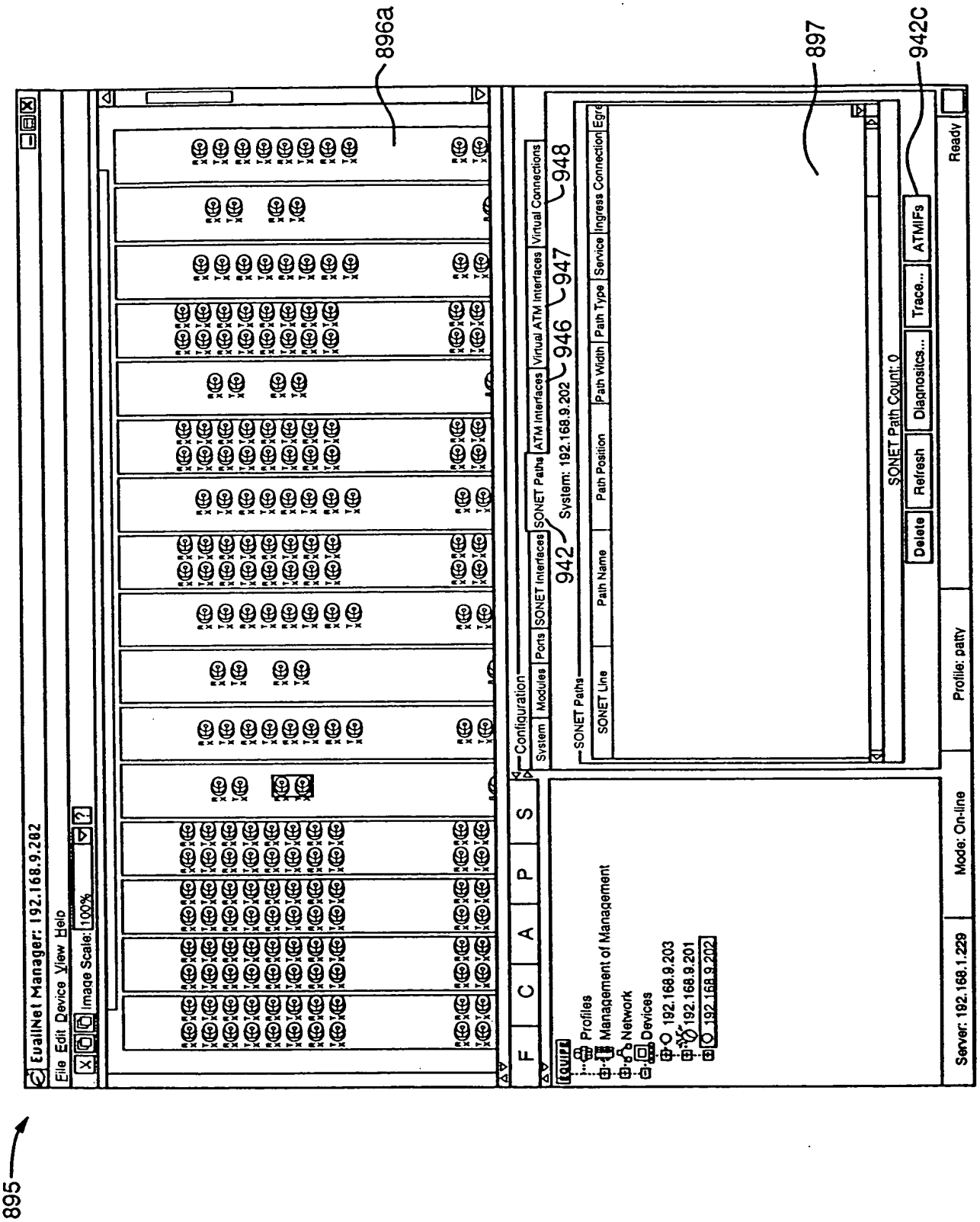

895
896a
897
942c
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.203
192.168.9.201
192.168.9.202
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
942
948
System: 192.168.9.202
946
947
SONET Paths
SONET Line
Path Name
Path Position
Path Width
Path Type
Service
Ingress Connection
SONET Path Count: 0
Delete
Refresh
Diagnostics...
Trace...
ATMIFs
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4W

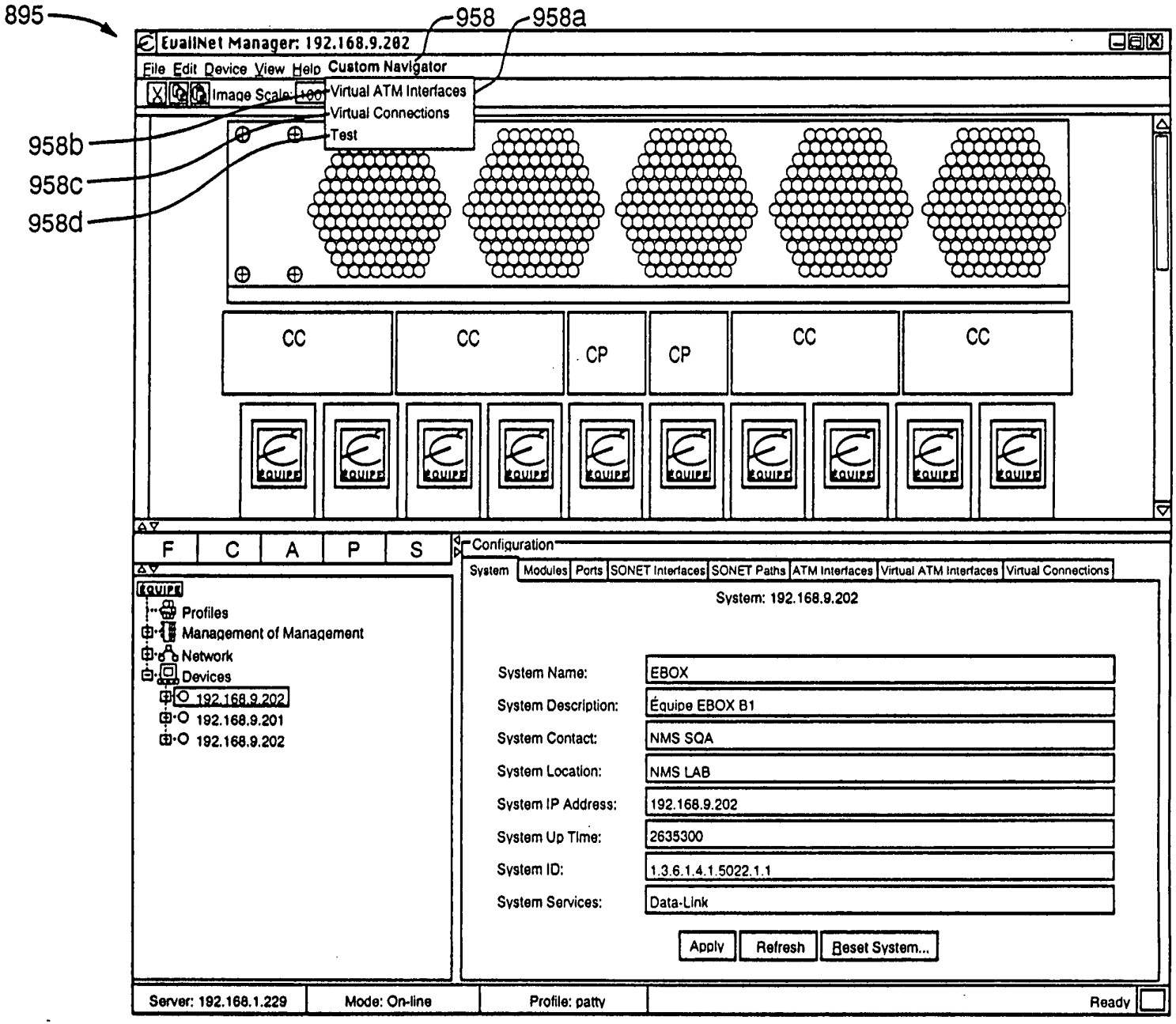

895
958
958a
EqualNet Manager: 192.168.9.202
File Edit Device View Help
Custom Navigator
Image Scale: 100
Virtual ATM Interfaces
Virtual Connections
Test
958b
958c
958d
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.202
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 2635300
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 4X

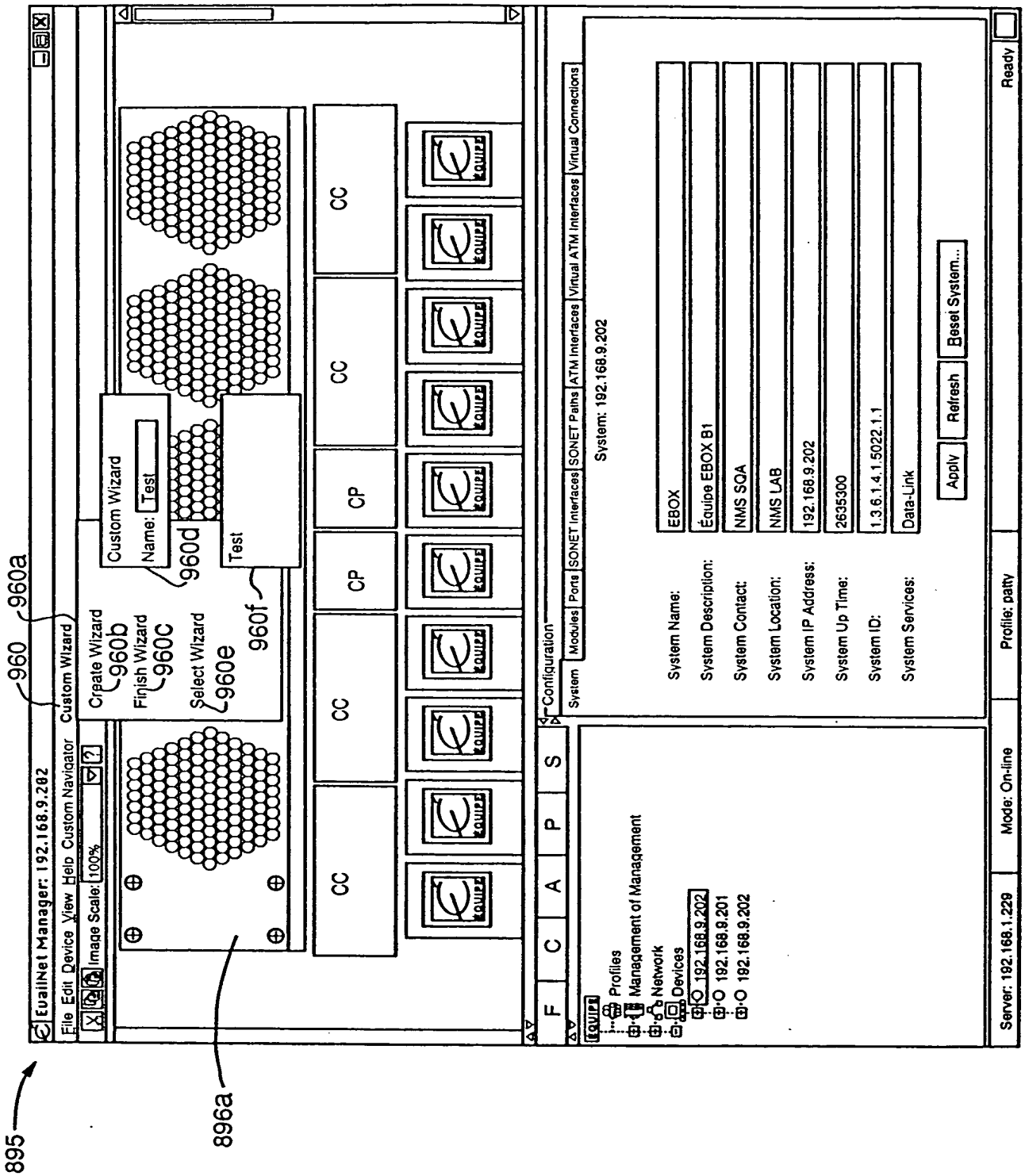

EquaiNet Manager: 192.168.9.202
File Edit Device View Help Custom Navigator
Image Scale: 100%
Custom Wizard
960
960a
Create Wizard
960b
Finish Wizard
960c
Select Wizard
960e
Custom Wizard
Name: Test
960d
Test
960f
CC
CP
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
System Name:
EBOX
System Description:
Equipe EBOX B1
System Contact:
NMS SQA
System Location:
NMS LAB
System IP Address:
192.168.9.202
System Up Time:
2635300
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.202
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
896a

FIG. 4Y

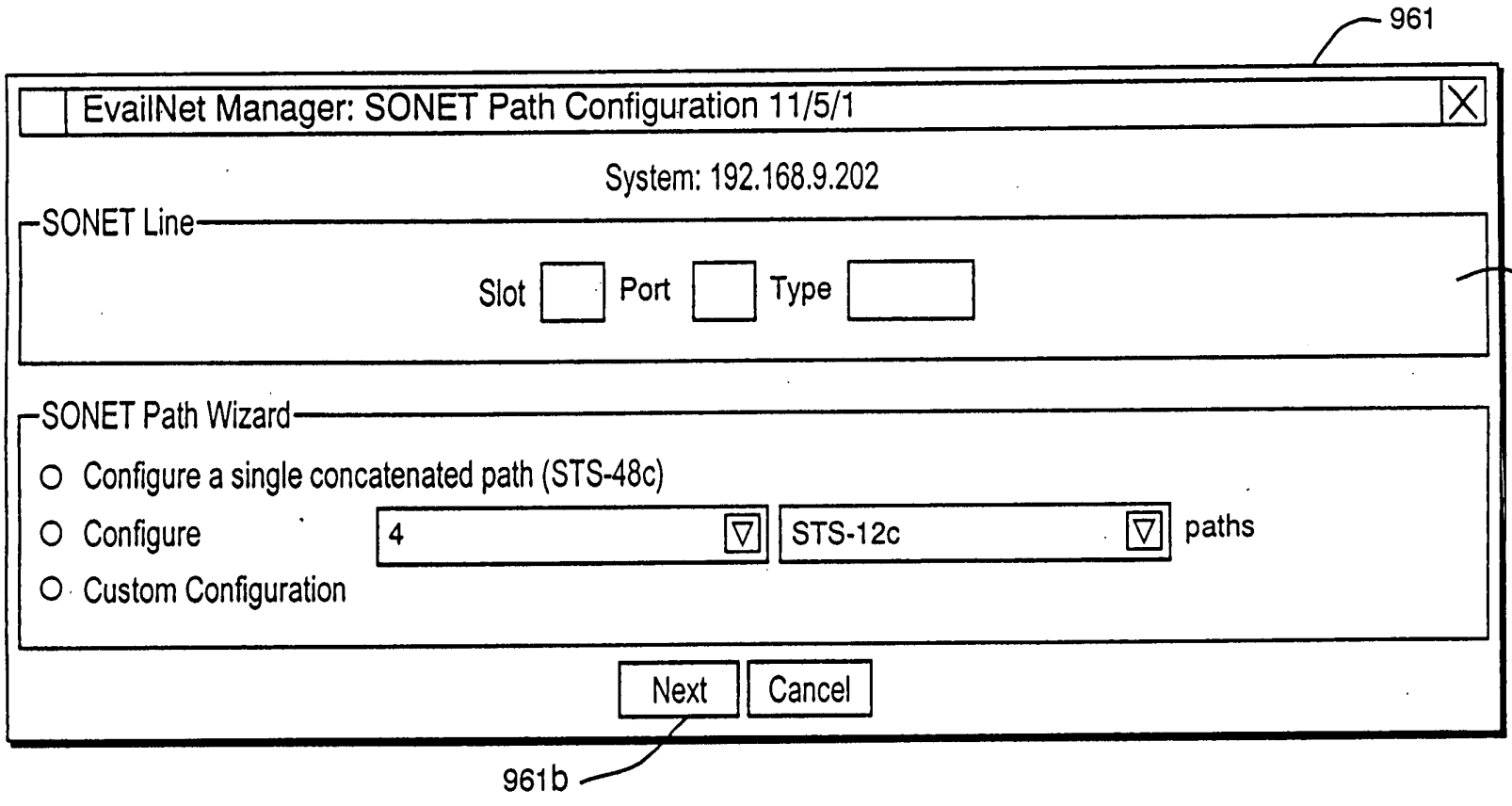


FIG. 4Z

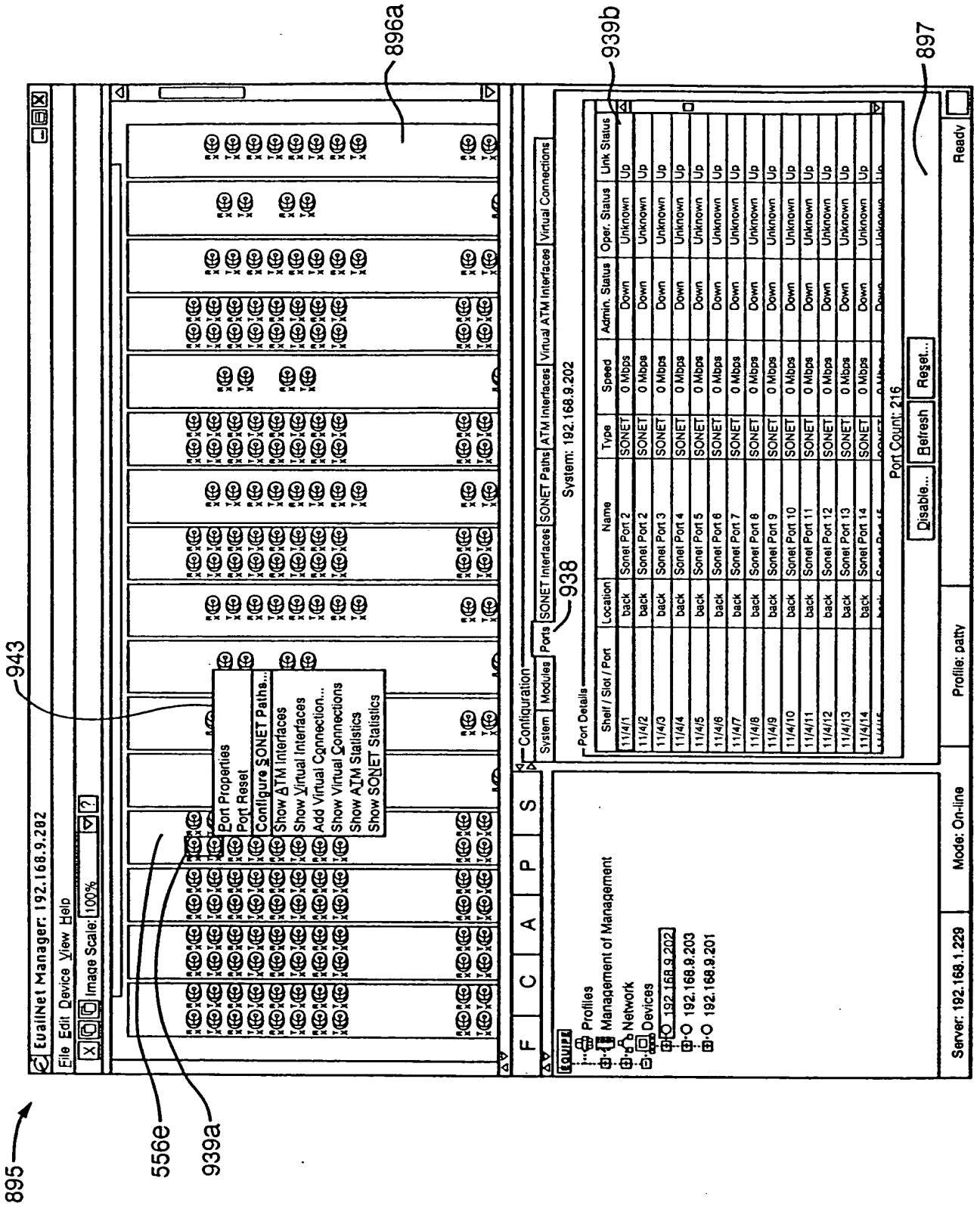

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Equipment
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Port Properties
Port Reset
Configure SONET Paths...
Show ATM Interfaces
Show Virtual Interfaces
Add Virtual Connection...
Show Virtual Connections
Show ATM Statistics
Show SONET Statistics
943
556e
939a
896a
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
938
System: 192.168.9.202
939b
Port Details
Shelf / Slot / Port
Location
Name
Type
Speed
Admin. Status
Oper. Status
Link Status
11/4/1 back Sonet Port 2 SONET 0 Mbps Down Unknown Up
11/4/2 back Sonet Port 2 SONET 0 Mbps Down Unknown Up
11/4/3 back Sonet Port 3 SONET 0 Mbps Down Unknown Up
11/4/4 back Sonet Port 4 SONET 0 Mbps Down Unknown Up
11/4/5 back Sonet Port 5 SONET 0 Mbps Down Unknown Up
11/4/6 back Sonet Port 6 SONET 0 Mbps Down Unknown Up
11/4/7 back Sonet Port 7 SONET 0 Mbps Down Unknown Up
11/4/8 back Sonet Port 8 SONET 0 Mbps Down Unknown Up
11/4/9 back Sonet Port 9 SONET 0 Mbps Down Unknown Up
11/4/10 back Sonet Port 10 SONET 0 Mbps Down Unknown Up
11/4/11 back Sonet Port 11 SONET 0 Mbps Down Unknown Up
11/4/12 back Sonet Port 12 SONET 0 Mbps Down Unknown Up
11/4/13 back Sonet Port 13 SONET 0 Mbps Down Unknown Up
11/4/14 back Sonet Port 14 SONET 0 Mbps Down Unknown Up
Port Count: 216
Disable...
Refresh
Reset...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5A

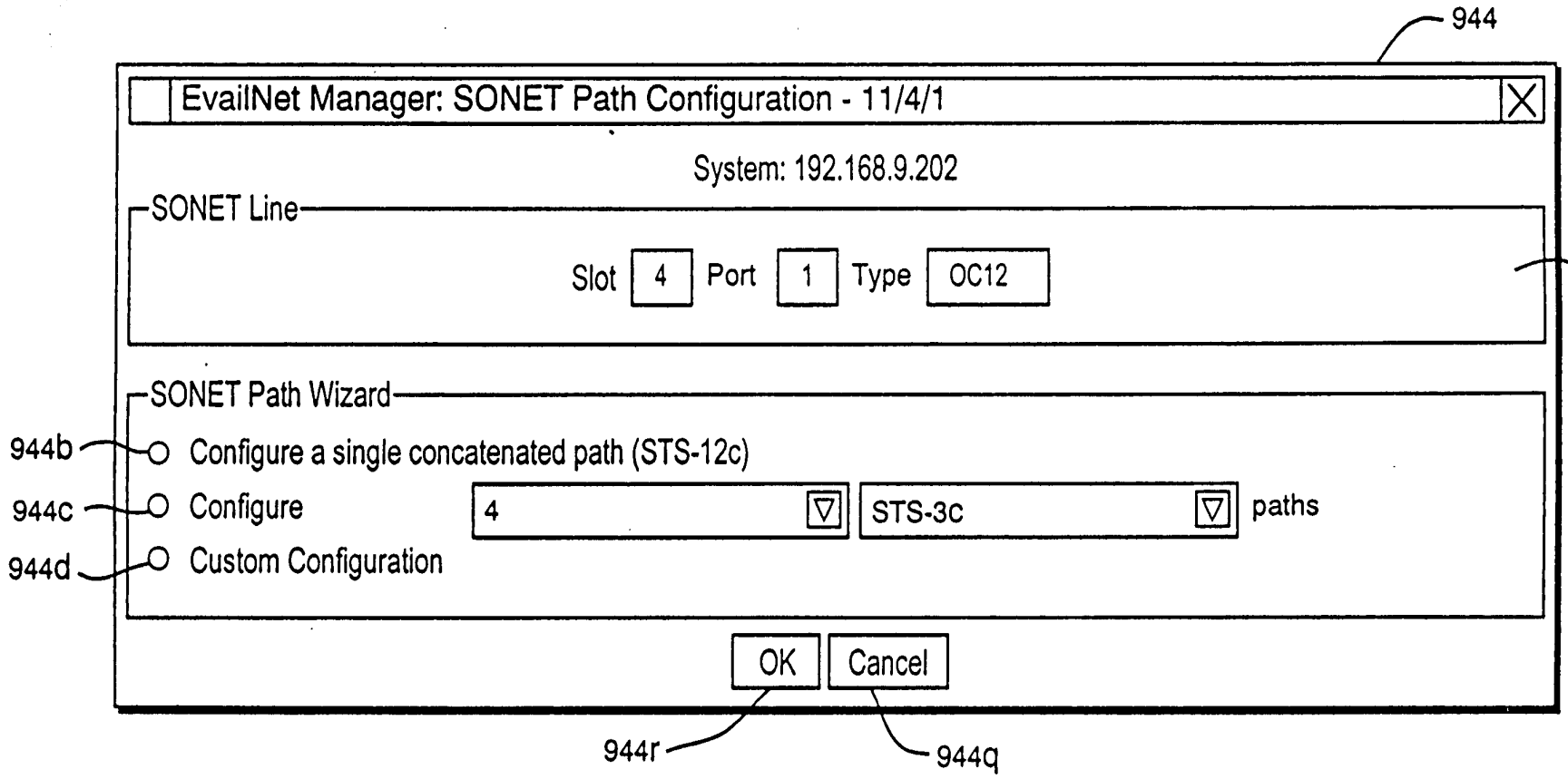

944
EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
SONET Line
Slot 4 Port 1 Type OC12
SONET Path Wizard
944b
Configure a single concatenated path (STS-12c)
944c
Configure
4
STS-3c
paths
944d
Custom Configuration
OK
Cancel
944r
944q

FIG. 5B

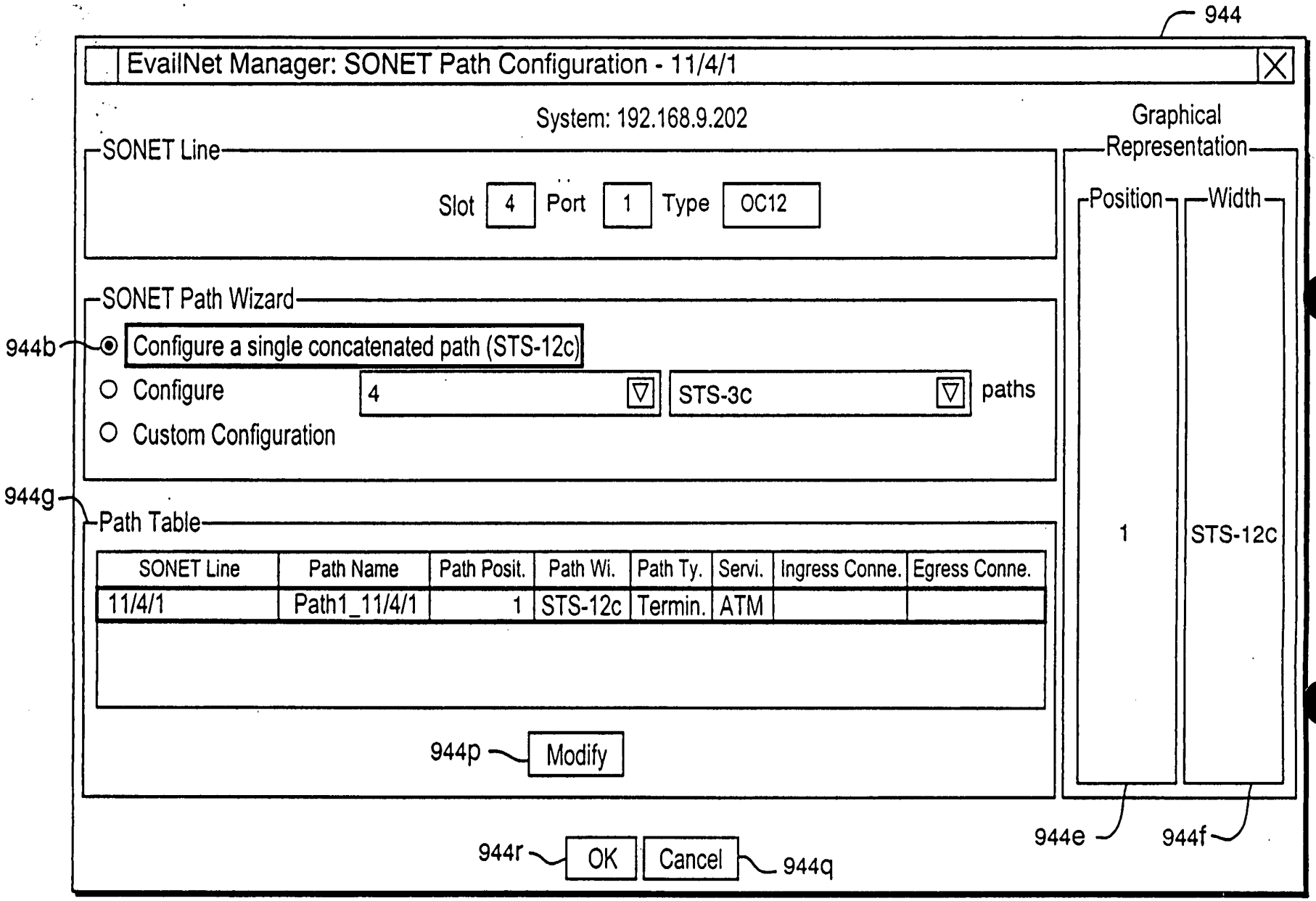


FIG. 5C

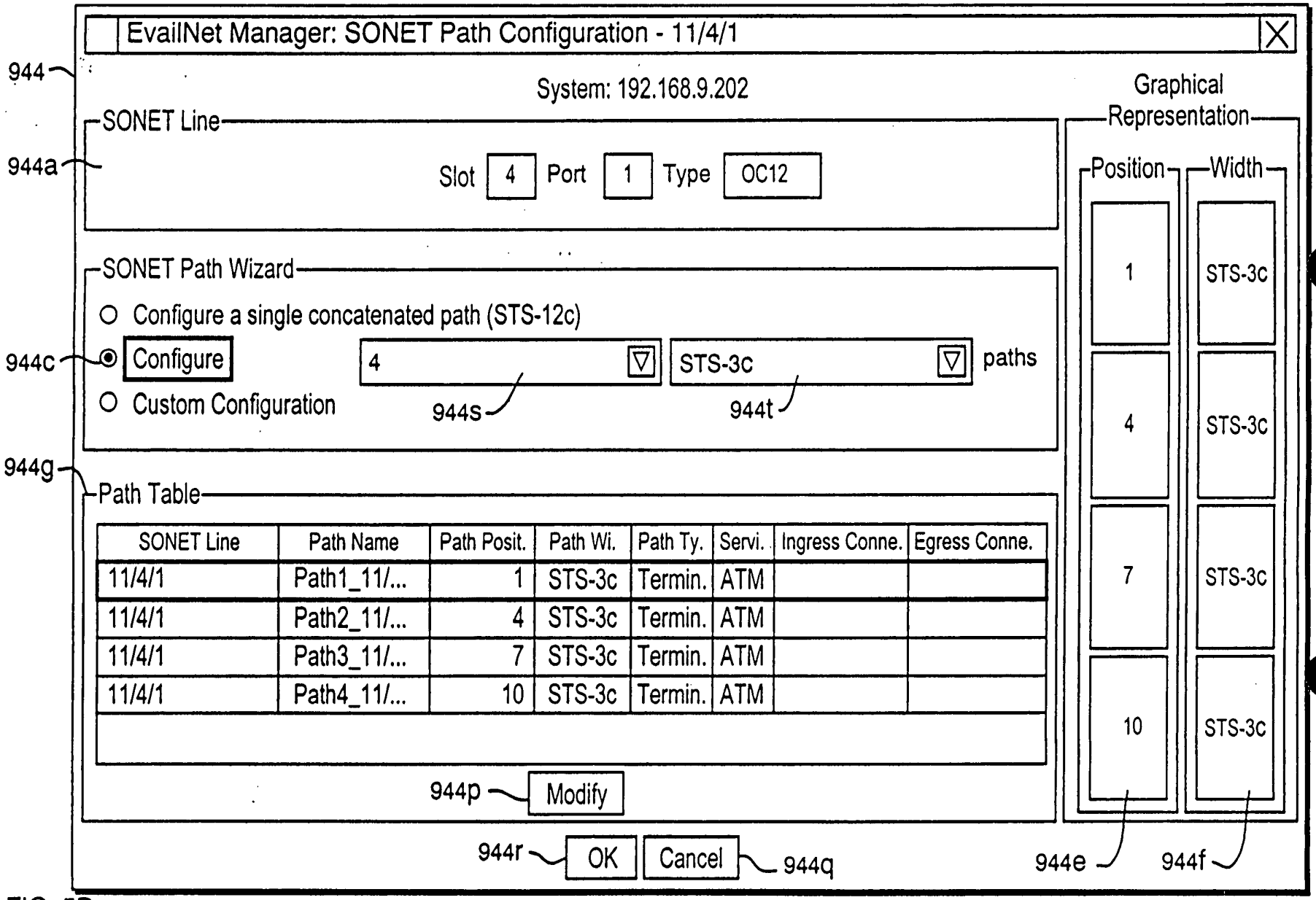

EvailNet Manager: SONET Path Configuration - 11/4/1
944
System: 192.168.9.202
Graphical Representation
SONET Line
944a
Slot 4 Port 1 Type OC12
Position
Width
1
STS-3c
4
STS-3c
7
STS-3c
10
STS-3c
SONET Path Wizard
Configure a single concatenated path (STS-12c)
944c
Configure
4
STS-3c
paths
Custom Configuration
944s
944t
944g
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/4/1 | Path1_11/... | 1 | STS-3c | Termin. | ATM
11/4/1 | Path2_11/... | 4 | STS-3c | Termin. | ATM
11/4/1 | Path3_11/... | 7 | STS-3c | Termin. | ATM
11/4/1 | Path4_11/... | 10 | STS-3c | Termin. | ATM
944p
Modify
944r
OK
Cancel
944q
944e
944f

FIG. 5D

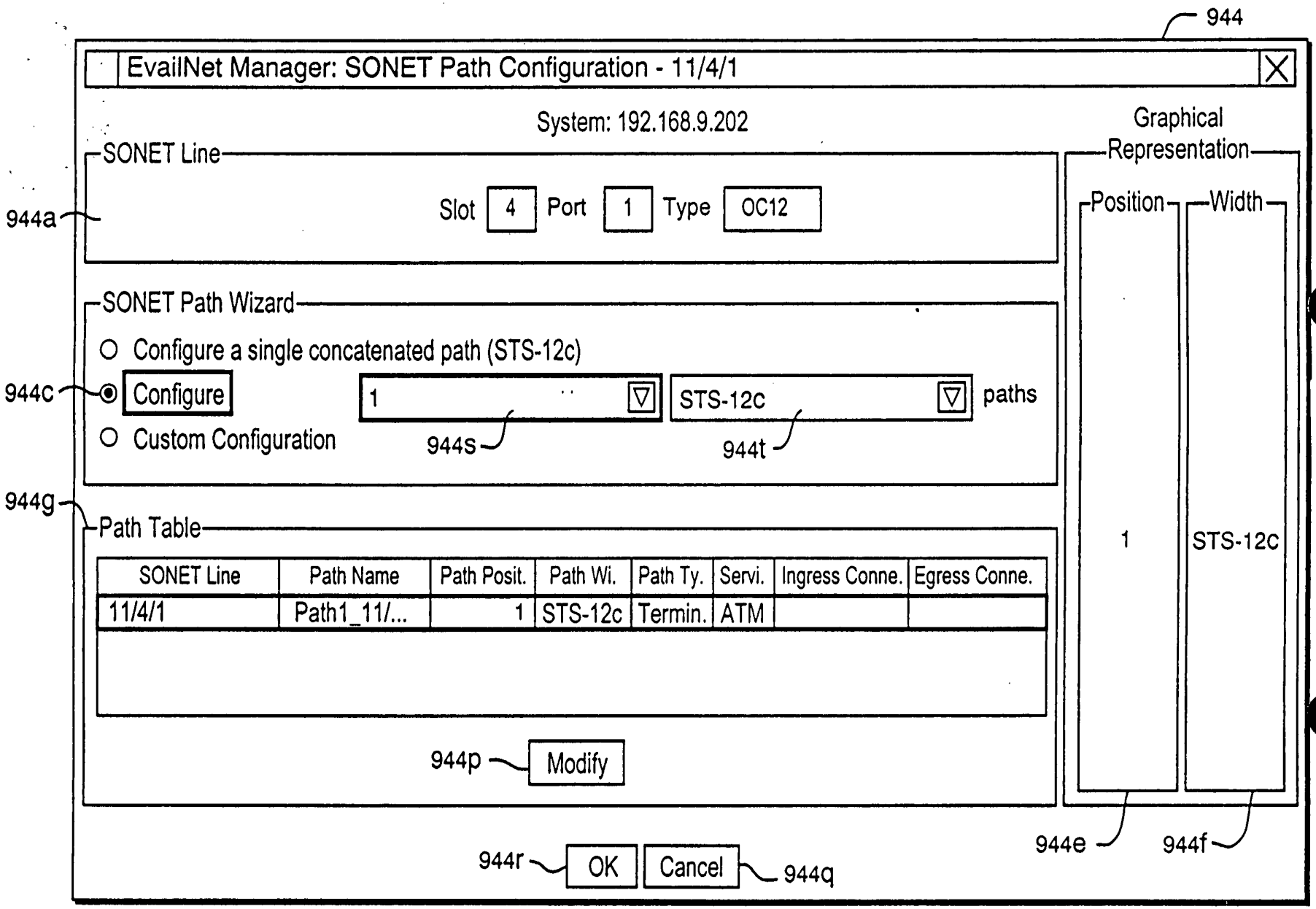


FIG. 5E

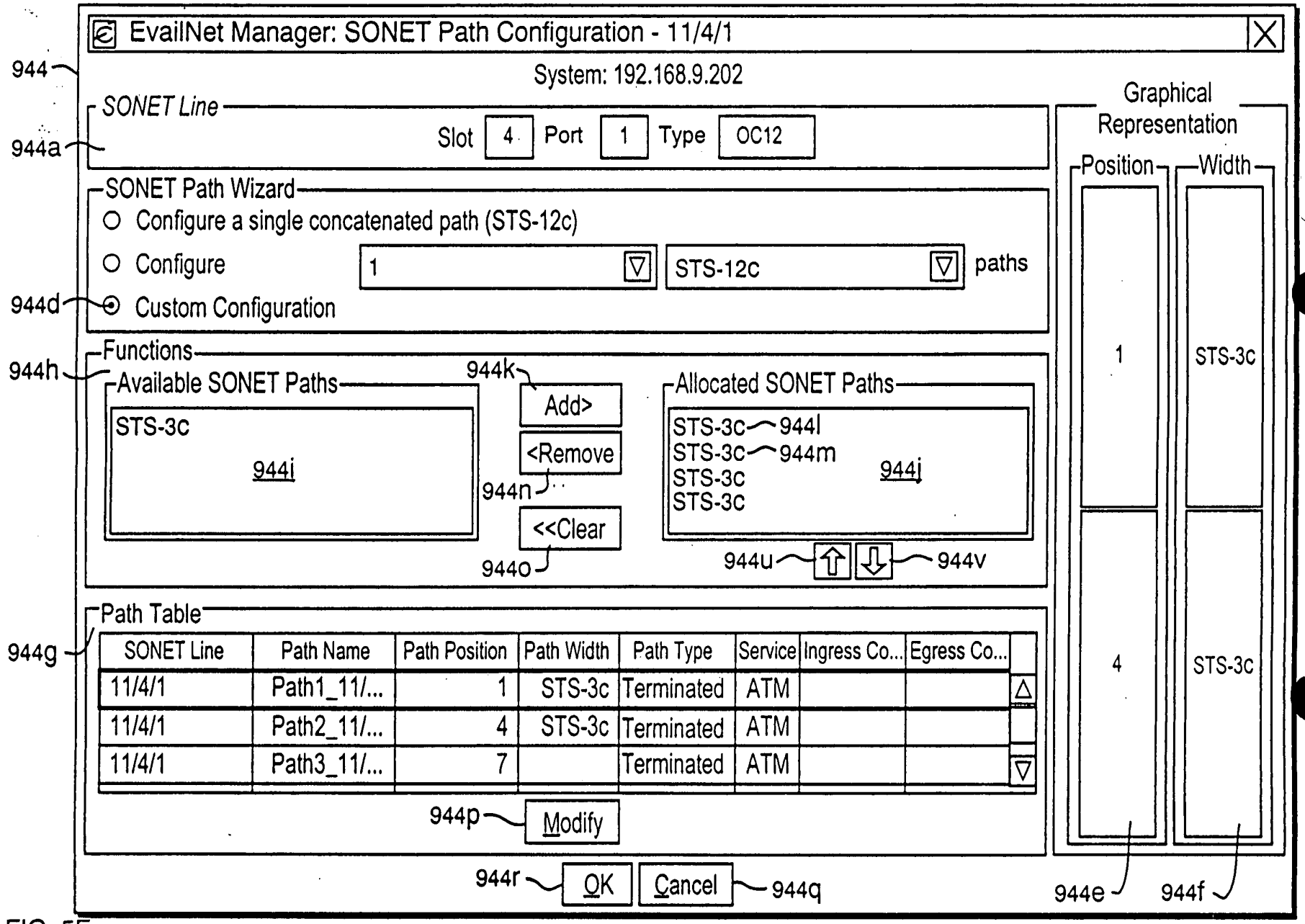

EvailNet Manager: SONET Path Configuration - 11/4/1
System: 192.168.9.202
944
SONET Line
944a
Slot 4 Port 1 Type OC12
SONET Path Wizard
Configure a single concatenated path (STS-12c)
Configure 1 STS-12c paths
944d
Custom Configuration
Functions
944h
Available SONET Paths
STS-3c
944i
944k
Add>
<Remove
944n
<<Clear
944o
Allocated SONET Paths
STS-3c 944l
STS-3c 944m
STS-3c
STS-3c
944j
944u
944v
Path Table
944g
SONET Line | Path Name | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co...
11/4/1 | Path1_11/... | 1 | STS-3c | Terminated | ATM
11/4/1 | Path2_11/... | 4 | STS-3c | Terminated | ATM
11/4/1 | Path3_11/... | 7 | | Terminated | ATM
944p
Modify
944r
OK
Cancel
944q
Graphical Representation
Position
Width
1
STS-3c
4
STS-3c
944e
944f

FIG. 5F

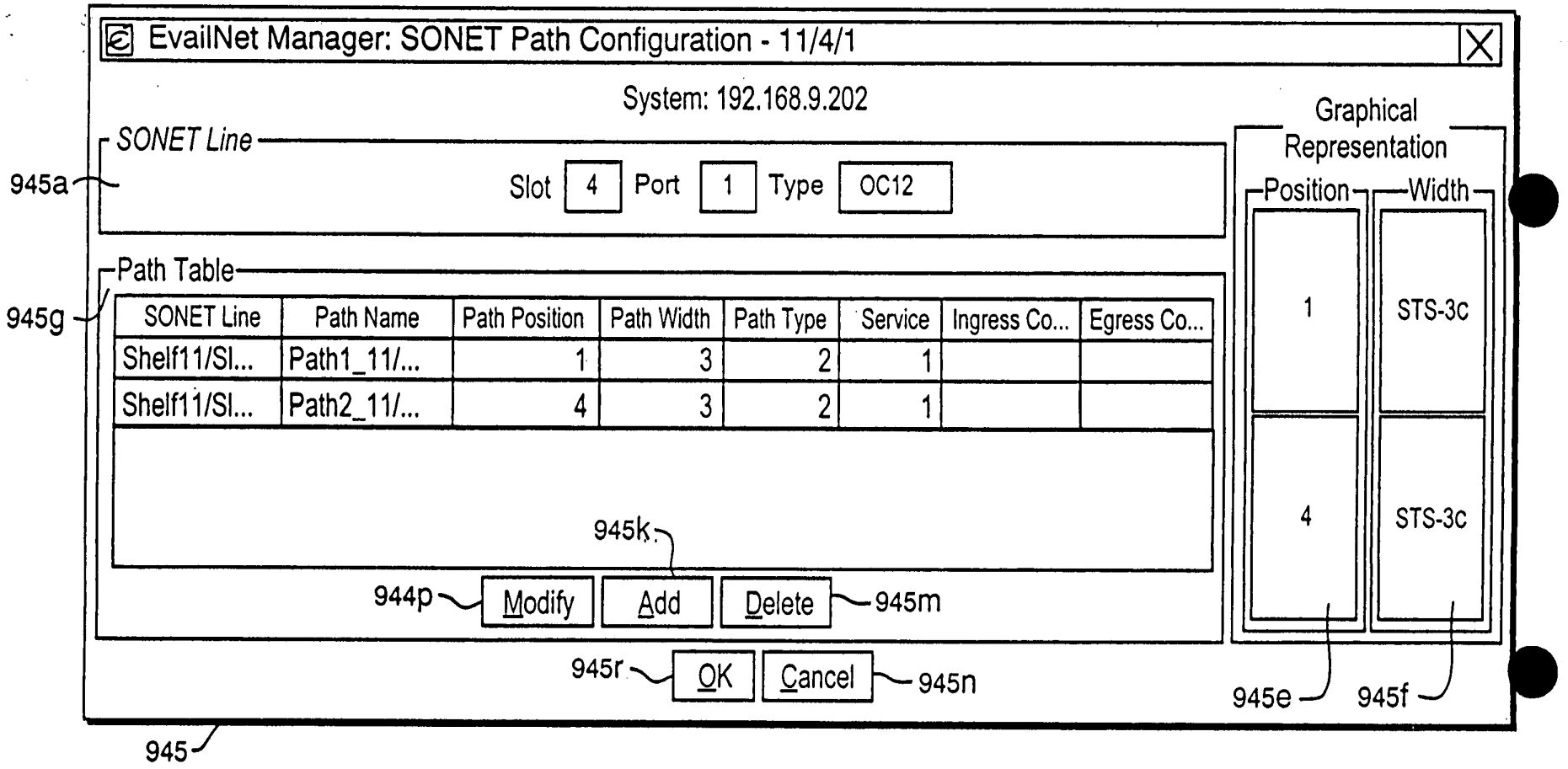


FIG. 5G

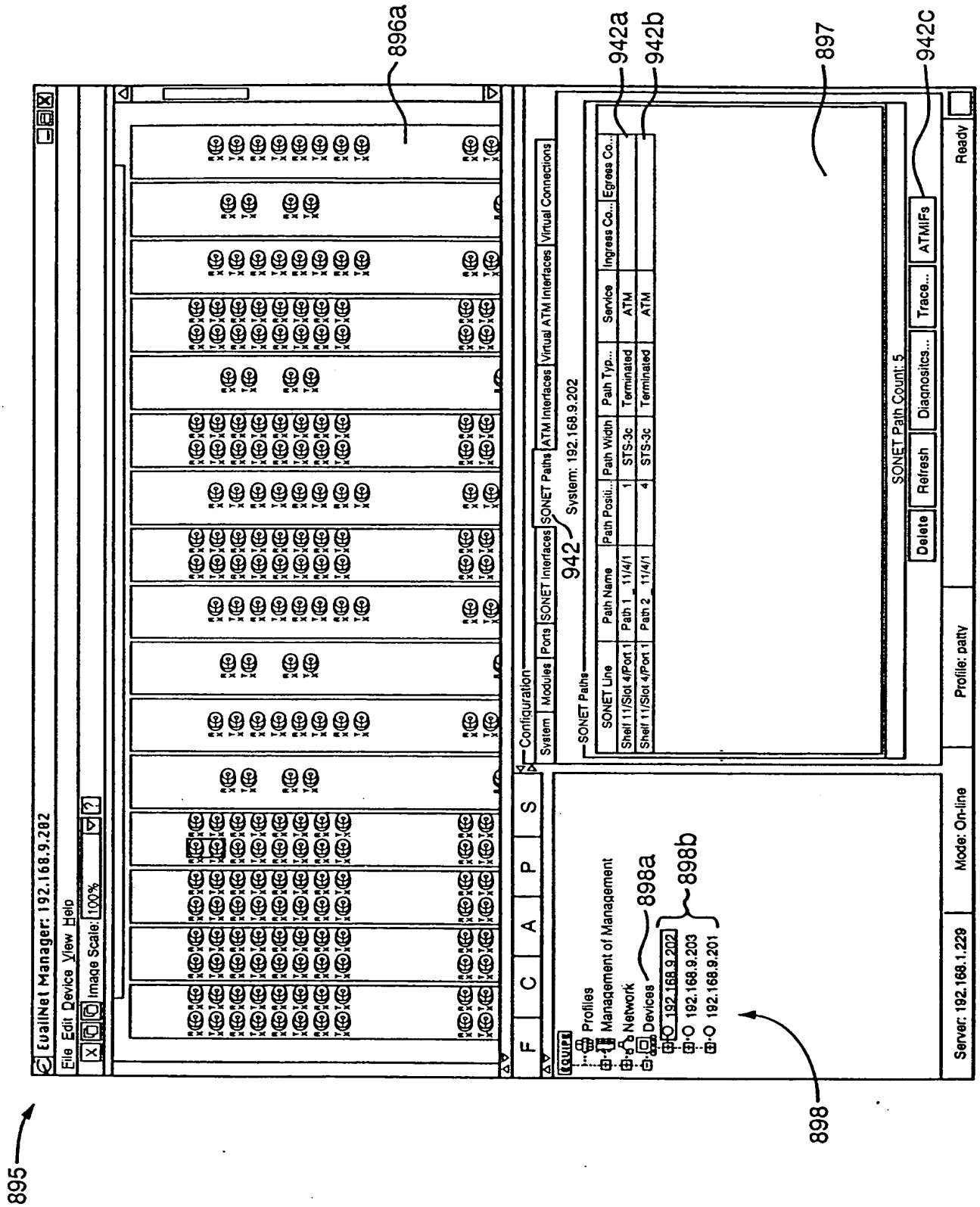

895
896a
942a
942b
897
942c
898
898a
898b
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
942
System: 192.168.9.202
SONET Paths
SONET Line | Path Name | Path Posili... | Path Width | Path Typ... | Service | Ingress Co... | Egress Co...
Shelf 11/Slot 4/Port 1 | Path 1 11/4/1 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path 2 11/4/1 | 4 | STS-3c | Terminated | ATM
SONET Path Count: 5
Delete Refresh Diagnostics... Trace... ATMIFs
Profiles
Management of Management Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Server: 192.168.1.229 Mode: On-line Profile: patty Ready

FIG. 5H

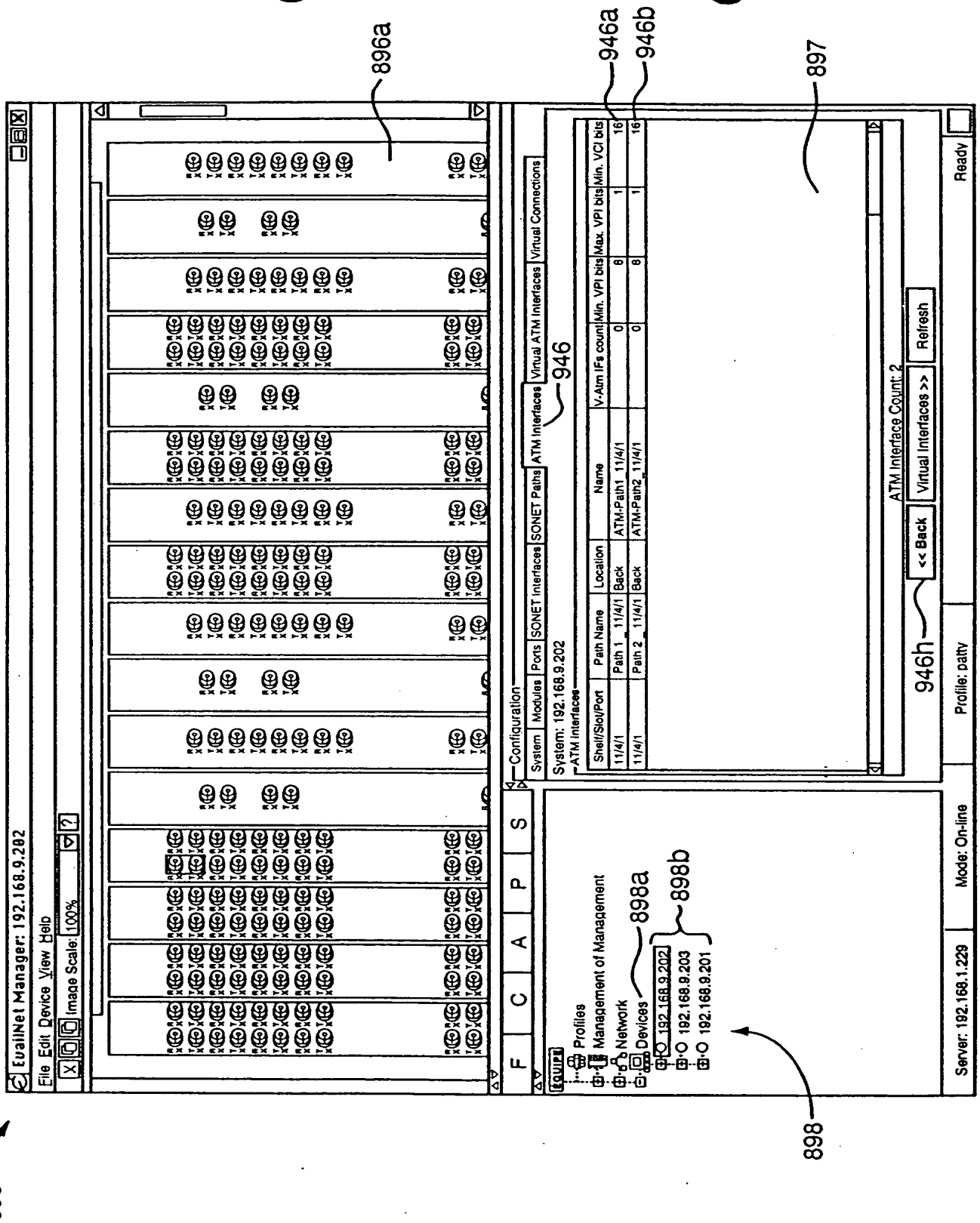

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
896a
898
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
898a
898b
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
946
System: 192.168.9.202
ATM Interfaces
946a
946b
Shelf/Slot/Port | Path Name | Location | Name | V-Atm IFs count | Min. VPI bits | Max. VPI bits | Min. VCI bits
11/4/1 | Path 1 _ 11/4/1 | Back | ATM-Path1_11/4/1 | 0 | 8 | 1 | 16
11/4/1 | Path 2 _ 11/4/1 | Back | ATM-Path2_11/4/1 | 0 | 8 | 1 | 16
897
ATM Interface Count: 2
946h
<< Back
Virtual Interfaces >>
Refresh
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5I

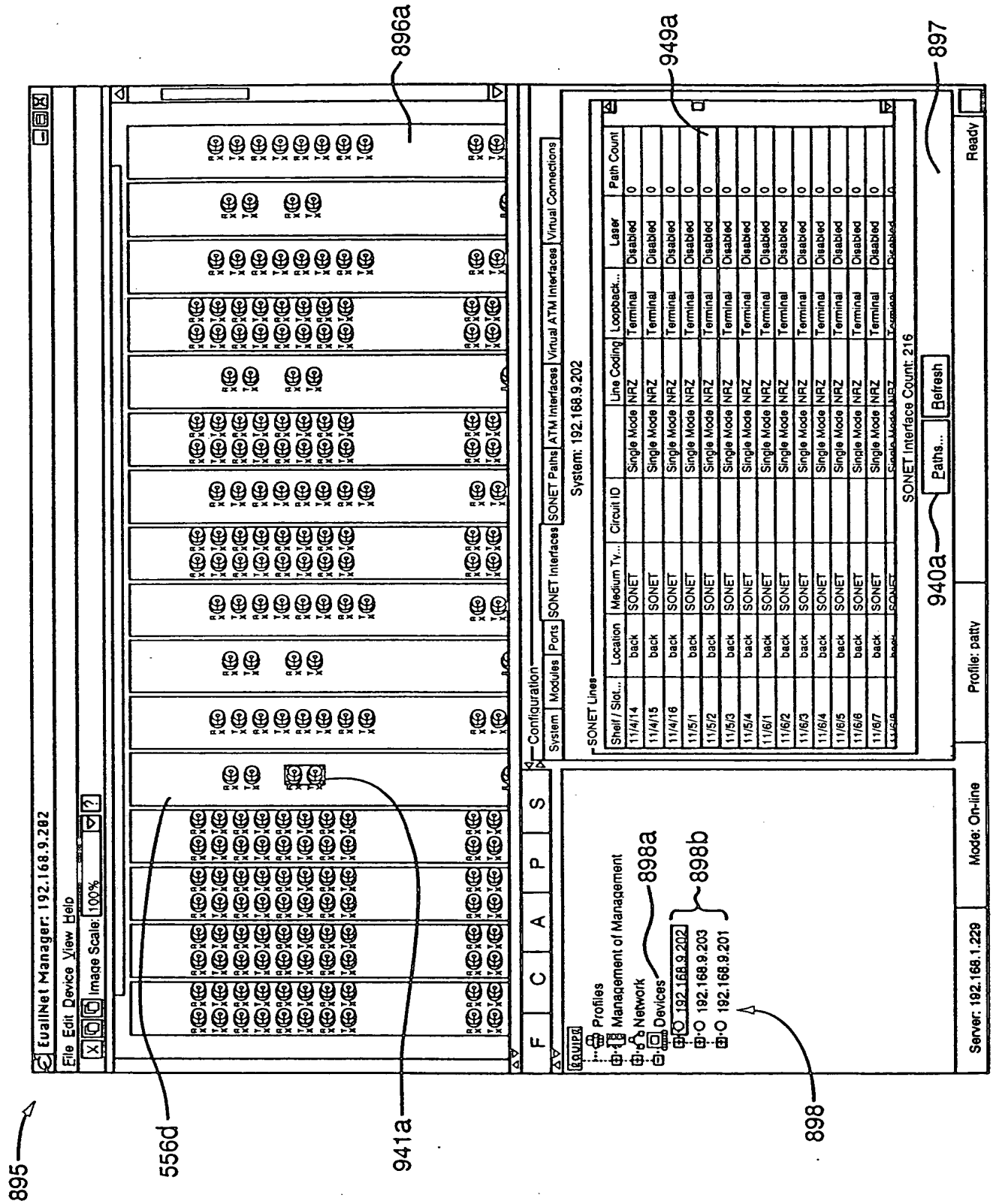

EuallNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
SONET Lines
SONET Interface Count: 216
Paths...
Refresh
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
F C A P S
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
556d
941a
898
898a
898b
896a
949a
940a
897

FIG. 5J

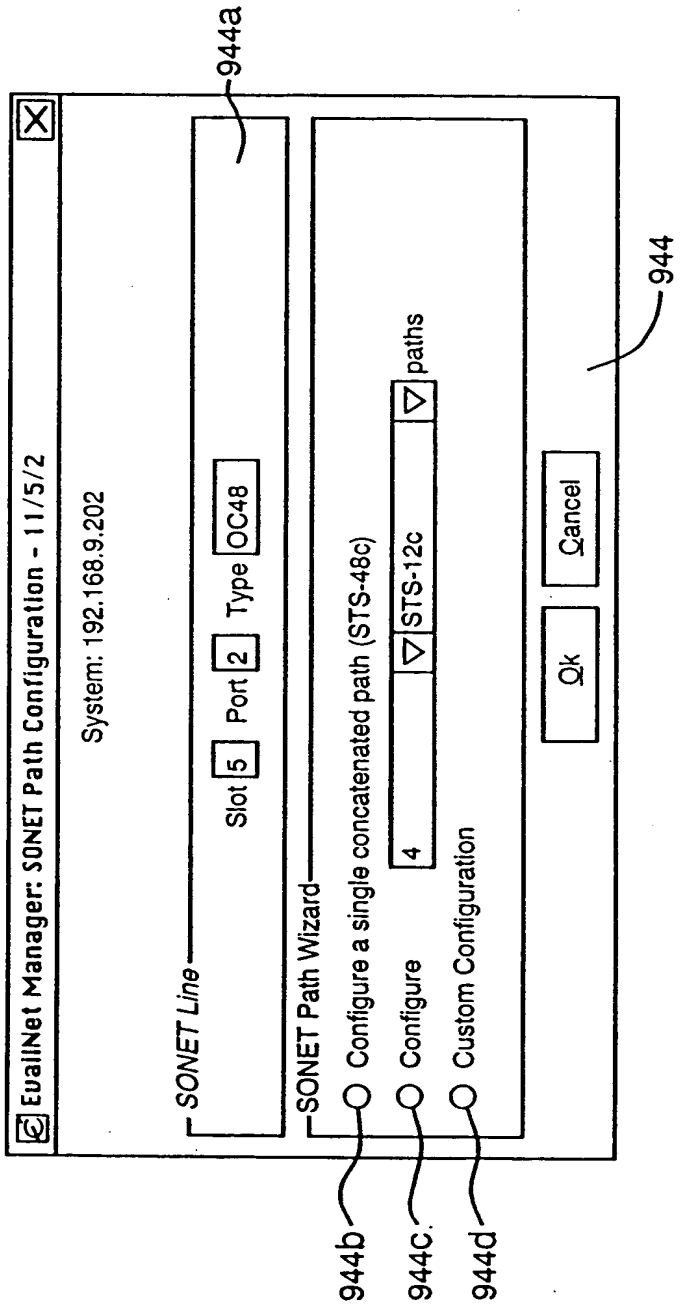

EvalNet Manager: SONET Path Configuration - 11/5/2
System: 192.168.9.202
SONET Line
Slot 5 Port 2 Type OC48
SONET Path Wizard
Configure a single concatenated path (STS-48c)
Configure
4
STS-12c
paths
Custom Configuration
Ok
Cancel
944a
944
944b
944c
944d

FIG. 5K

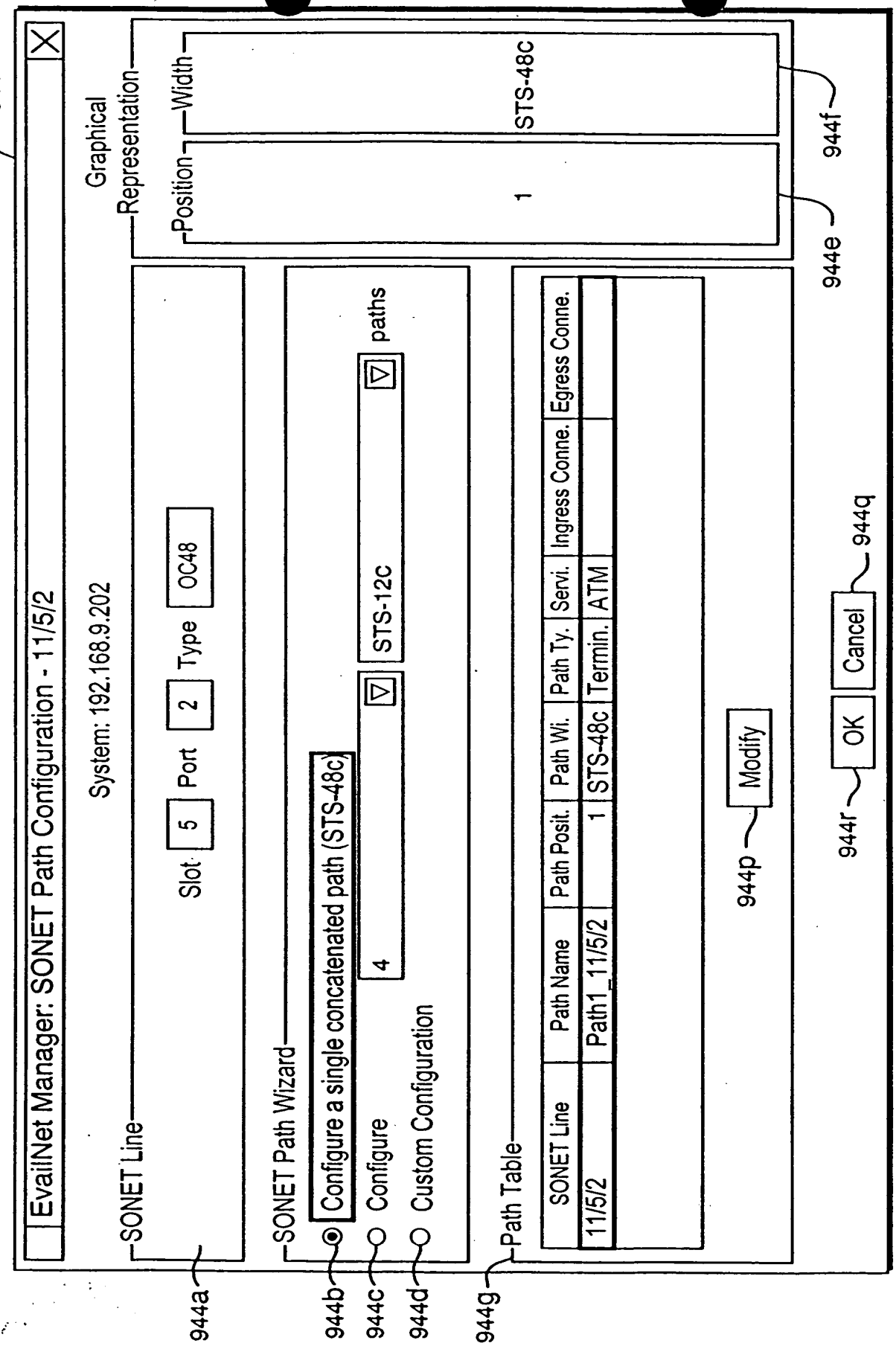

944
EvailNet Manager: SONET Path Configuration - 11/5/2
System: 192.168.9.202
SONET Line
Slot 5 Port 2 Type OC48
944a
SONET Path Wizard
Configure a single concatenated path (STS-48c)
Configure 4 STS-12c paths
Custom Configuration
944b
944c
944d
Graphical Representation
Position 1
Width STS-48c
944e
944f
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/5/2 | Path1_11/5/2 | 1 | STS-48c | Termin. | ATM
944g
944p Modify
944r OK Cancel 944q

FIG. 5L

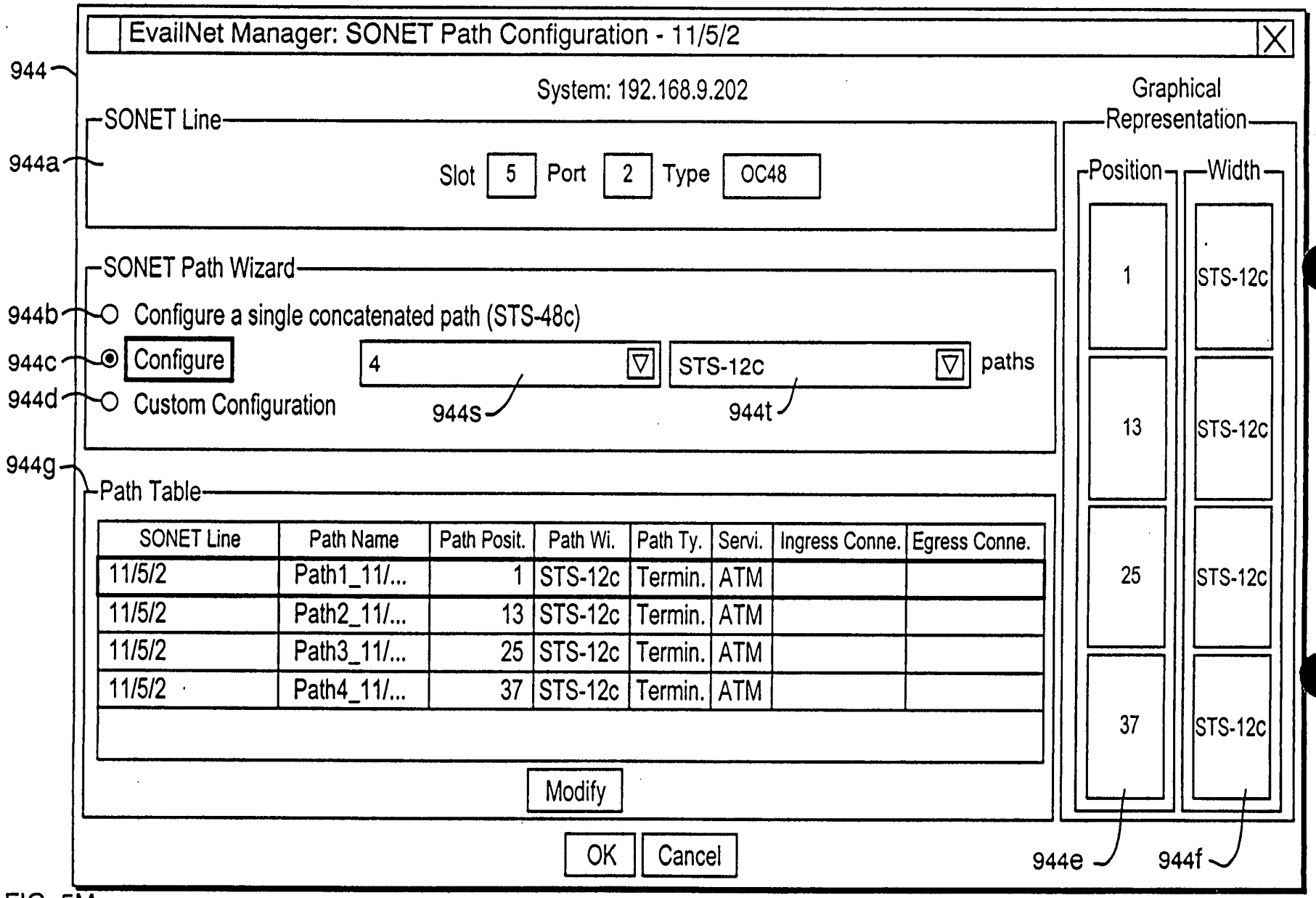


FIG. 5M

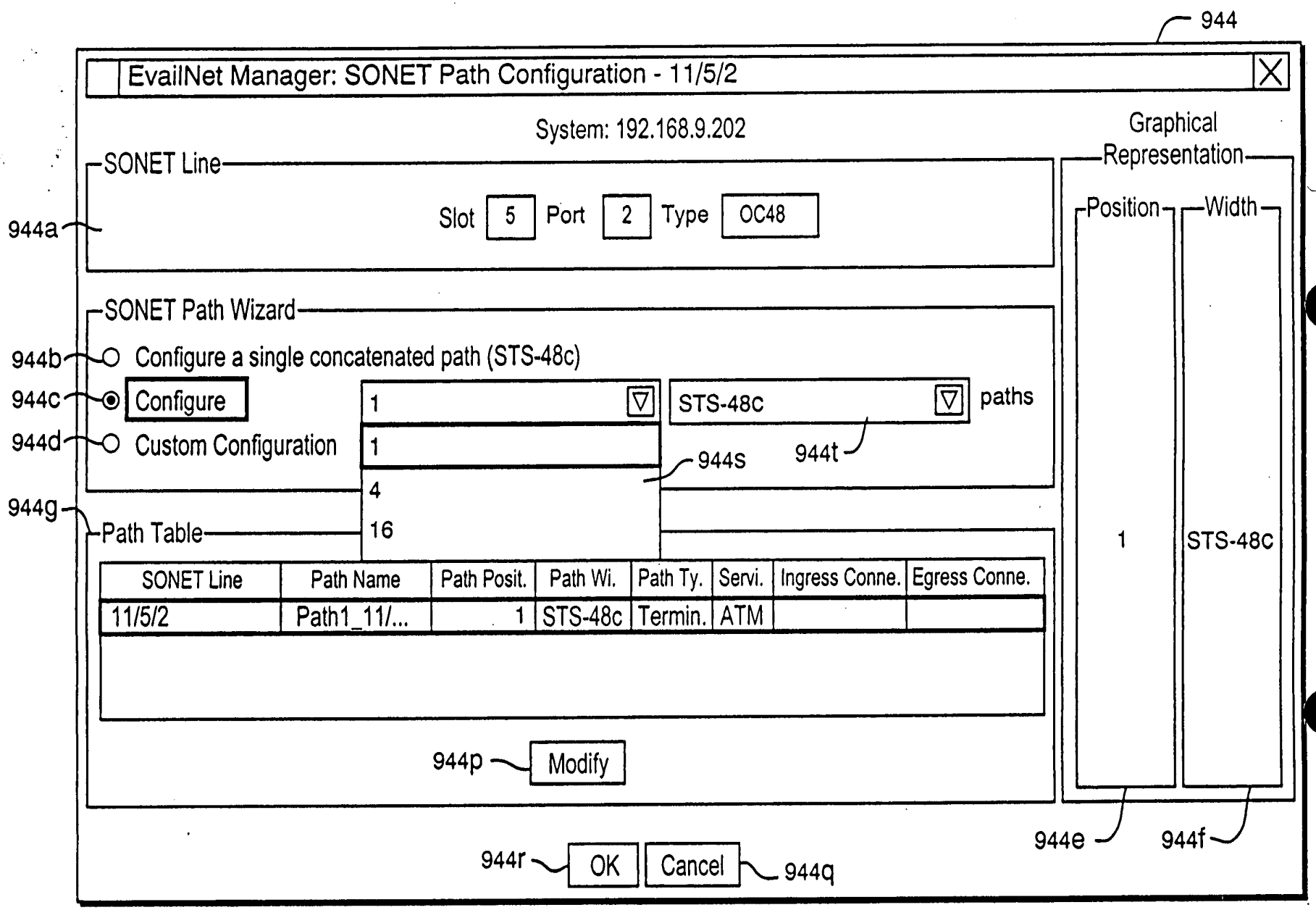

944
EvailNet Manager: SONET Path Configuration - 11/5/2
System: 192.168.9.202
Graphical Representation
SONET Line
944a
Slot 5 Port 2 Type OC48
Position
Width
SONET Path Wizard
944b
Configure a single concatenated path (STS-48c)
944c
Configure
1
STS-48c
paths
944d
Custom Configuration
1
944s
944t
4
944g
Path Table
16
1
STS-48c
SONET Line
Path Name
Path Posit.
Path Wi.
Path Ty.
Servi.
Ingress Conne.
Egress Conne.
11/5/2
Path1_11/...
1
STS-48c
Termin.
ATM
944p
Modify
944e
944f
944r
OK
Cancel
944q

FIG. 5N

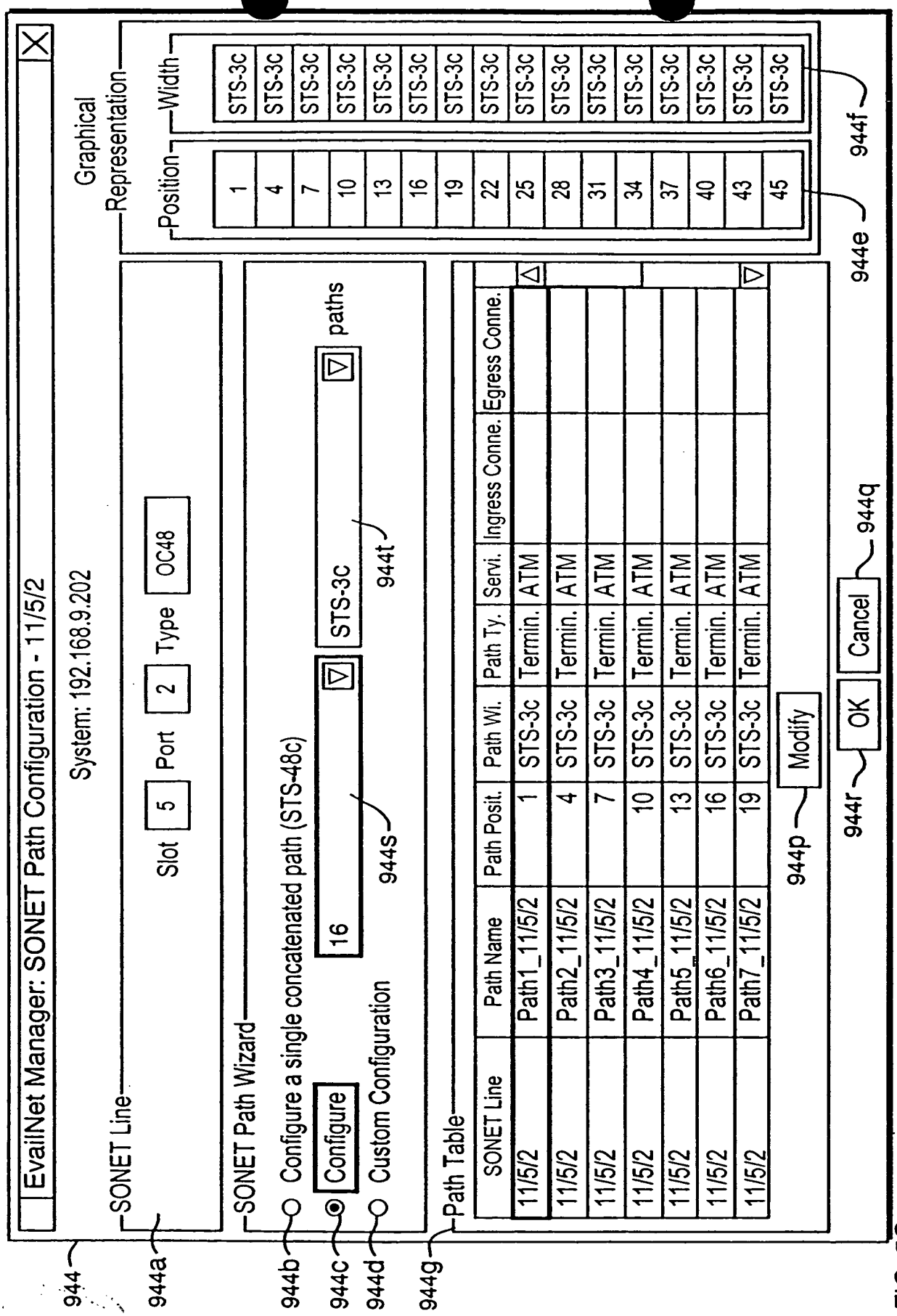

EvailNet Manager: SONET Path Configuration - 11/5/2
System: 192.168.9.202
SONET Line
Slot 5 Port 2 Type OC48
Graphical Representation
Position
Width
1 4 7 10 13 16 19 22 25 28 31 34 37 40 43 45
STS-3c
SONET Path Wizard
Configure a single concatenated path (STS-48c)
Configure
Custom Configuration
16
STS-3c
paths
Path Table
SONET Line | Path Name | Path Posit. | Path Wi. | Path Ty. | Servi. | Ingress Conne. | Egress Conne.
11/5/2 | Path1_11/5/2 | 1 | STS-3c | Termin. | ATM
11/5/2 | Path2_11/5/2 | 4 | STS-3c | Termin. | ATM
11/5/2 | Path3_11/5/2 | 7 | STS-3c | Termin. | ATM
11/5/2 | Path4_11/5/2 | 10 | STS-3c | Termin. | ATM
11/5/2 | Path5_11/5/2 | 13 | STS-3c | Termin. | ATM
11/5/2 | Path6_11/5/2 | 16 | STS-3c | Termin. | ATM
11/5/2 | Path7_11/5/2 | 19 | STS-3c | Termin. | ATM
Modify
OK
Cancel
944
944a
944b
944c
944d
944e
944f
944g
944p
944q
944r
944s
944t

FIG. 50

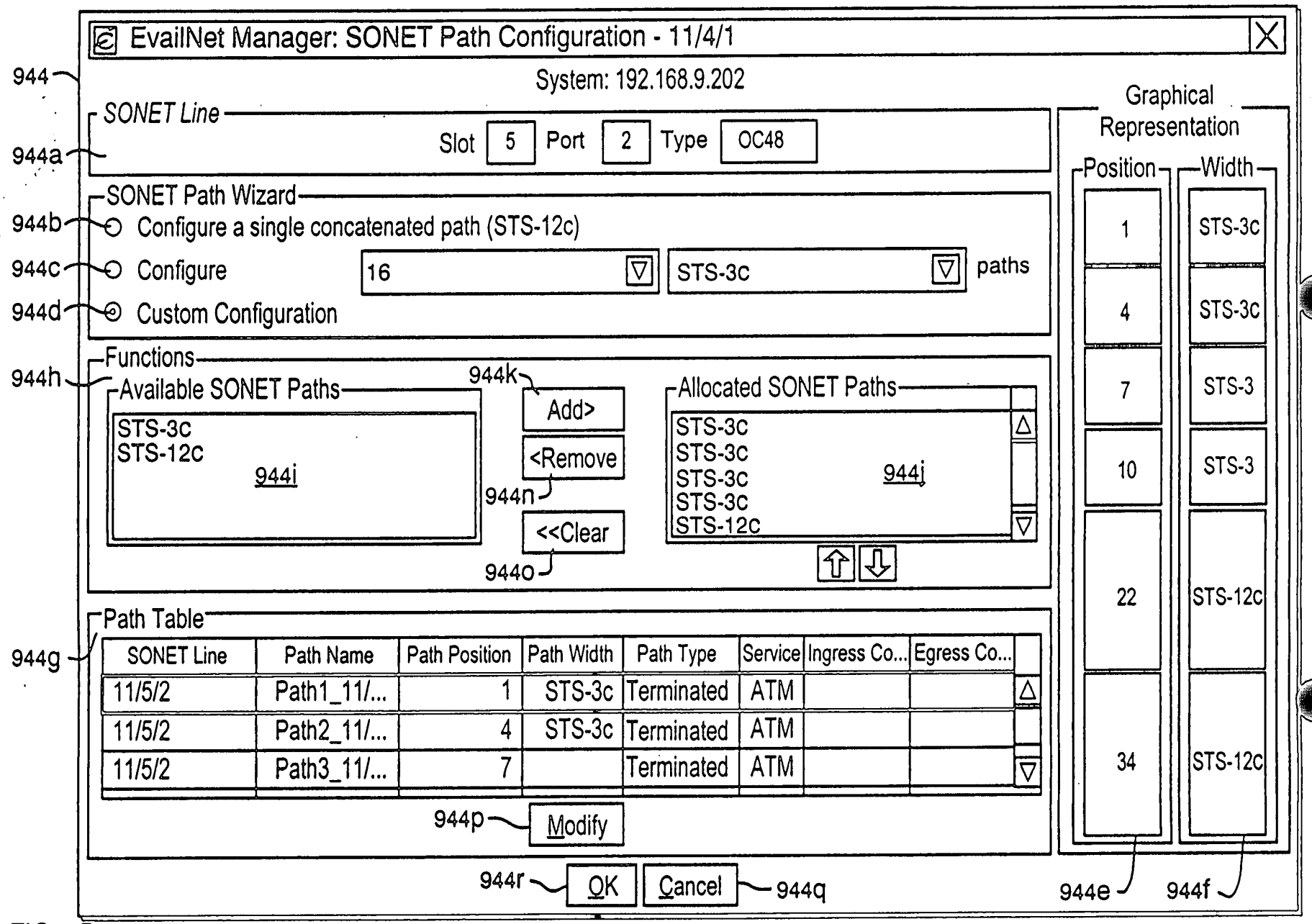

EvailNet Manager: SONET Path Configuration - 11/4/1
944
System: 192.168.9.202
SONET Line
944a
Slot 5 Port 2 Type OC48
SONET Path Wizard
944b Configure a single concatenated path (STS-12c)
944c Configure 16 STS-3c paths
944d Custom Configuration
Functions
944h
Available SONET Paths
STS-3c
STS-12c
944i
944k
Add>
<Remove
944n
<<Clear
944o
Allocated SONET Paths
STS-3c
STS-3c
STS-3c
STS-3c
STS-12c
944j
Path Table
944g
SONET Line | Path Name | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co...
11/5/2 | Path1_11/... | 1 | STS-3c | Terminated | ATM
11/5/2 | Path2_11/... | 4 | STS-3c | Terminated | ATM
11/5/2 | Path3_11/... | 7 | | Terminated | ATM
944p
Modify
944r
OK
Cancel
944q
Graphical Representation
Position
Width
1 STS-3c
4 STS-3c
7 STS-3
10 STS-3
22 STS-12c
34 STS-12c
944e
944f

FIG. 5P

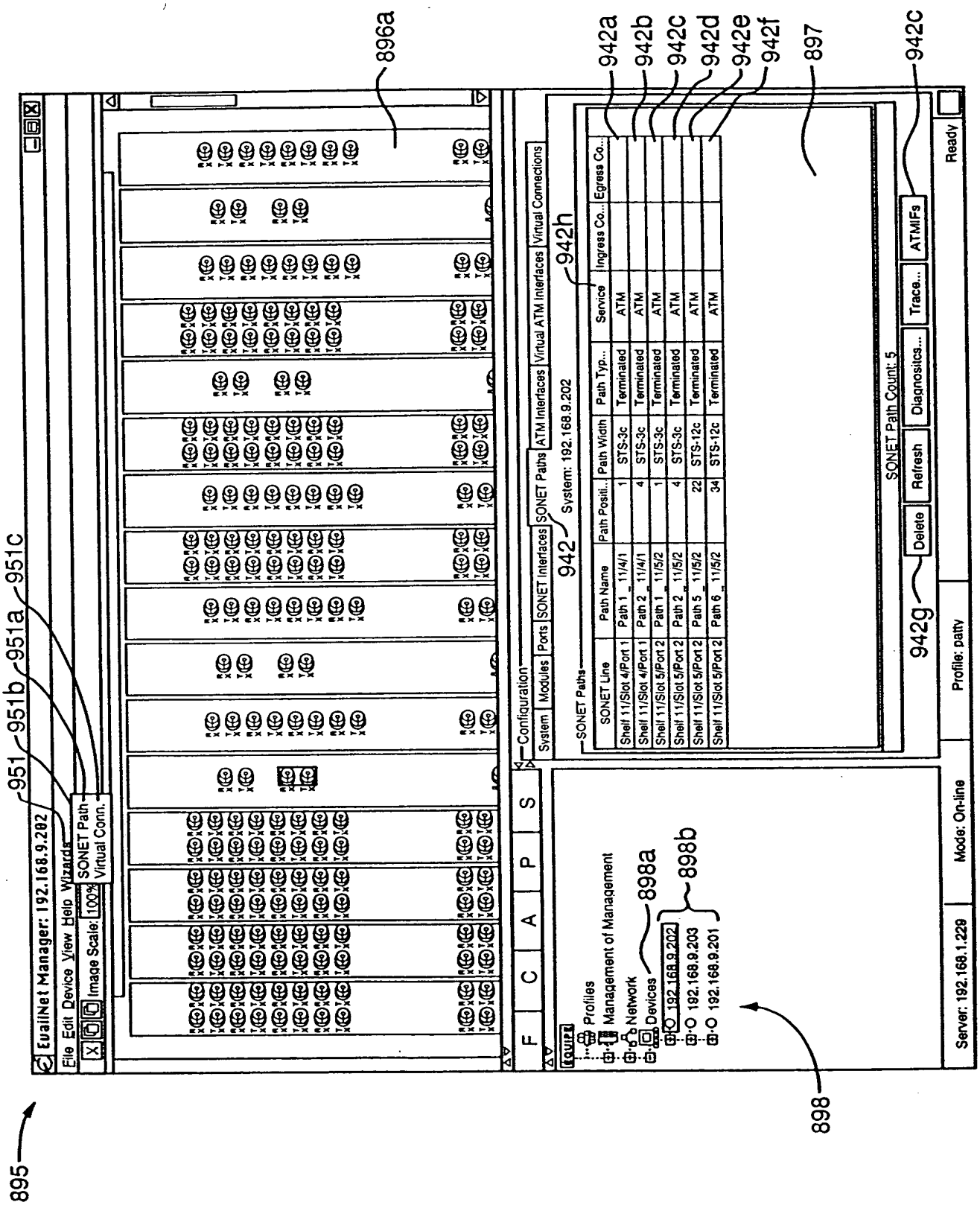

EvalNet Manager: 192.168.9.202
File Edit Device View Help Wizards
Image Scale: 100%
SONET Path
Virtual Conn.
951
951b
951a
951c
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
898a
898b
898
895
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
942
System: 192.168.9.202
942h
SONET Paths
SONET Line | Path Name | Path Positi... | Path Width | Path Typ... | Service | Ingress Co... | Egress Co...
Shelf 11/Slot 4/Port 1 | Path 1 _11/4/1 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path 2 _11/4/1 | 4 | STS-3c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 1 _11/5/2 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 2 _11/5/2 | 4 | STS-3c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 5 _11/5/2 | 22 | STS-12c | Terminated | ATM
Shelf 11/Slot 5/Port 2 | Path 6 _11/5/2 | 34 | STS-12c | Terminated | ATM
942a
942b
942c
942d
942e
942f
897
SONET Path Count: 5
942g
Delete
Refresh
Diagnostics...
Trace...
ATMIFs
942c
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5Q

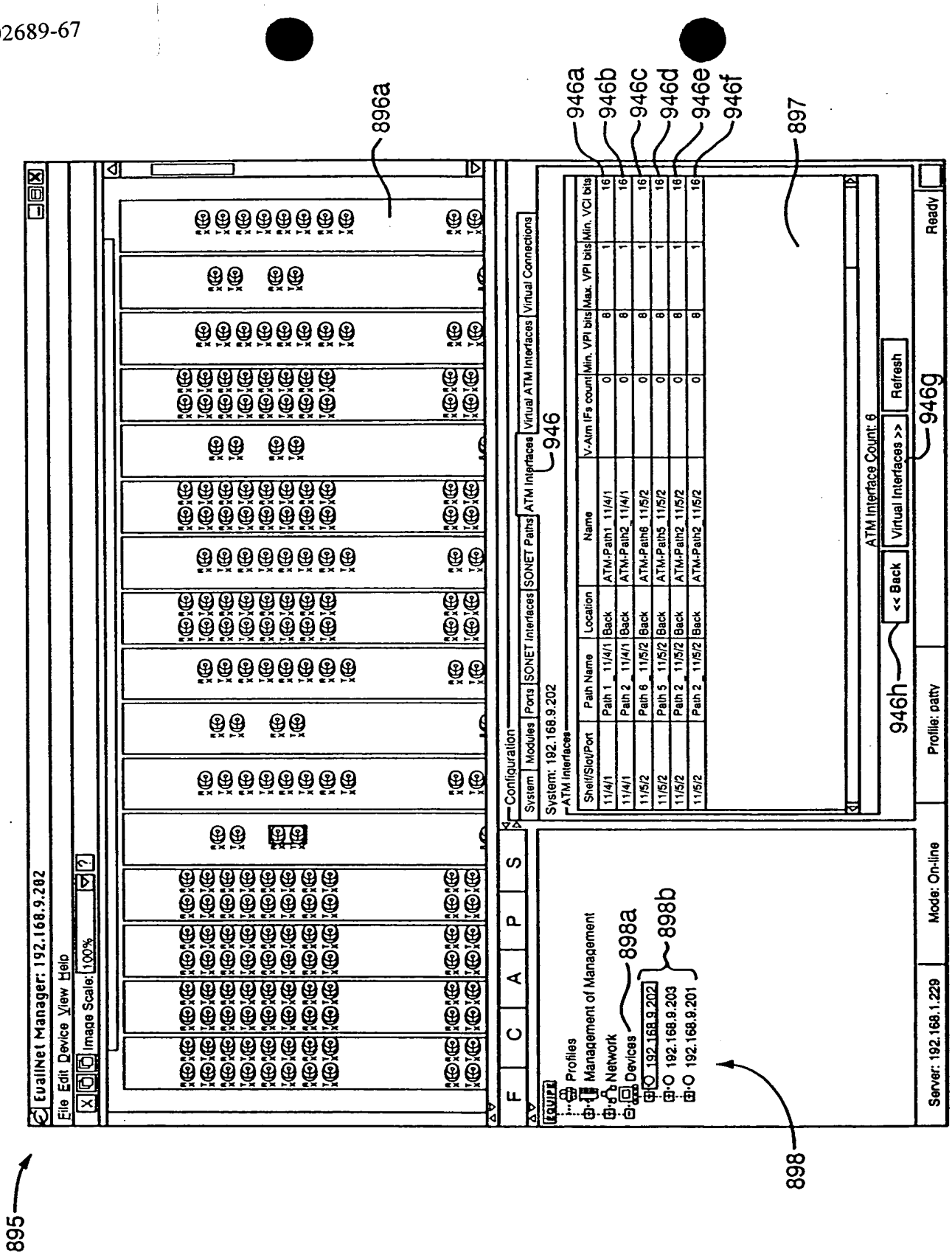

EvalINet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
896a
946a
946b
946c
946d
946e
946f
897
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
946
System: 192.168.9.202
ATM Interfaces
Shelf/Slot/Port | Path Name | Location | Name | V-Atm IFs count | Min. VPI bits | Max. VPI bits | Min. VCI bits
11/4/1 | Path 1 11/4/1 | Back | ATM-Path1 11/4/1 | 0 | 8 | 1 | 16
11/4/1 | Path 2 11/4/1 | Back | ATM-Path2 11/4/1 | 0 | 8 | 1 | 16
11/5/2 | Path 6 11/5/2 | Back | ATM-Path6 11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 5 11/5/2 | Back | ATM-Path5 11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 2 11/5/2 | Back | ATM-Path2 11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 2 11/5/2 | Back | ATM-Path2 11/5/2 | 0 | 8 | 1 | 16
ATM Interface Count: 6
946h
<< Back
Virtual Interfaces >>
Refresh
946g
Ready
F C A P S
Profiles
Management of Management
Network
Devices
898a
898b
192.168.9.202
192.168.9.203
192.168.9.201
898
Server: 192.168.1.229
Mode: On-line
Profile: patty
895

FIG. 5R

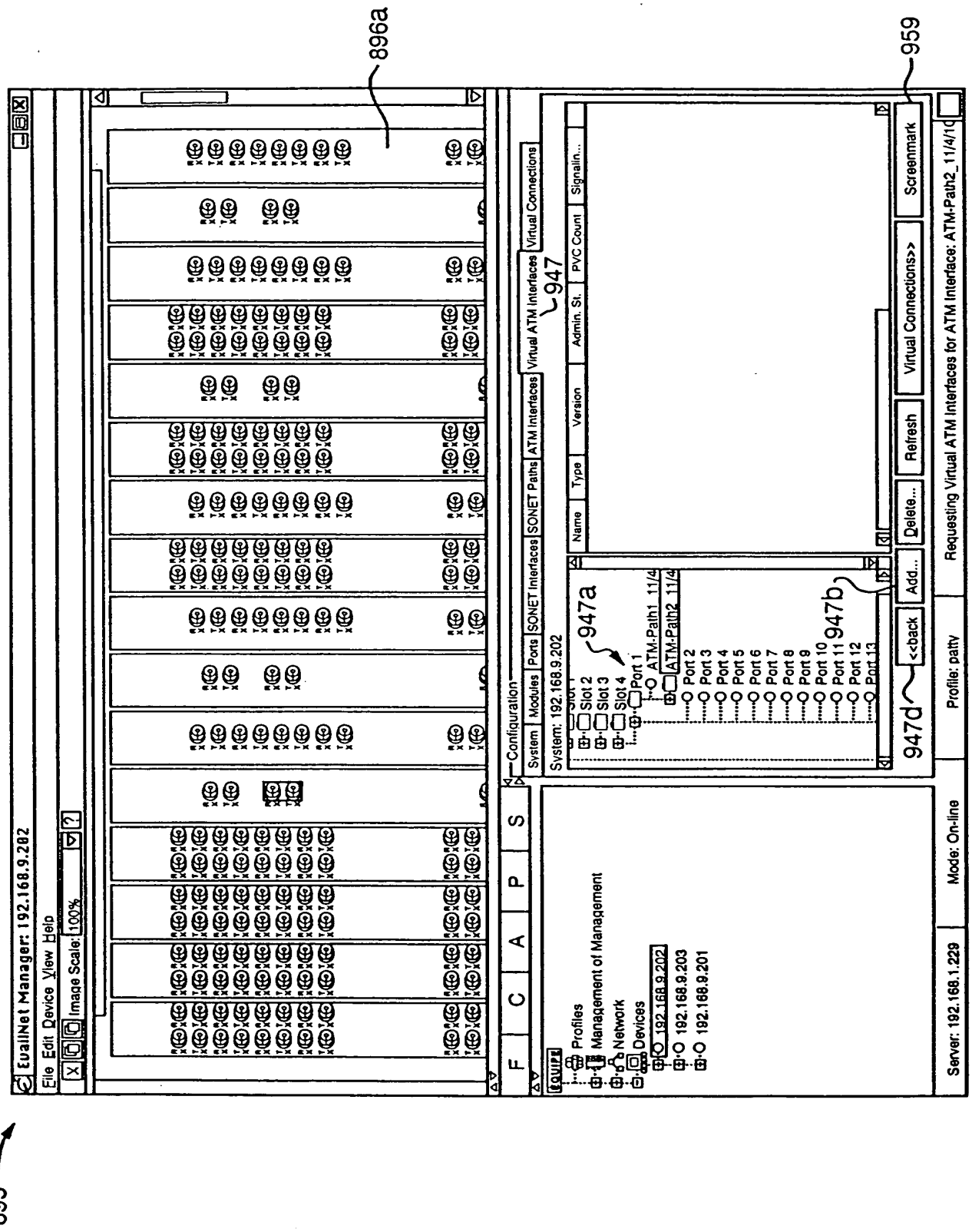

895
896a
959
947
947a
947b
947d
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Slot 1
Slot 2
Slot 3
Slot 4
Port 1
ATM-Path1 11/4
ATM-Path2 11/4
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Port 9
Port 10
Port 11
Port 12
Port 13
Name
Type
Version
Admin. St.
PVC Count
Signalin...
<<back
Add...
Delete...
Refresh
Virtual Connections>>
Screenmark
Server: 192.168.1.229
Mode: On-line
Profile: patty
Requesting Virtual ATM Interfaces for ATM Interface: ATM-Path2_11/4/1(

FIG. 5S

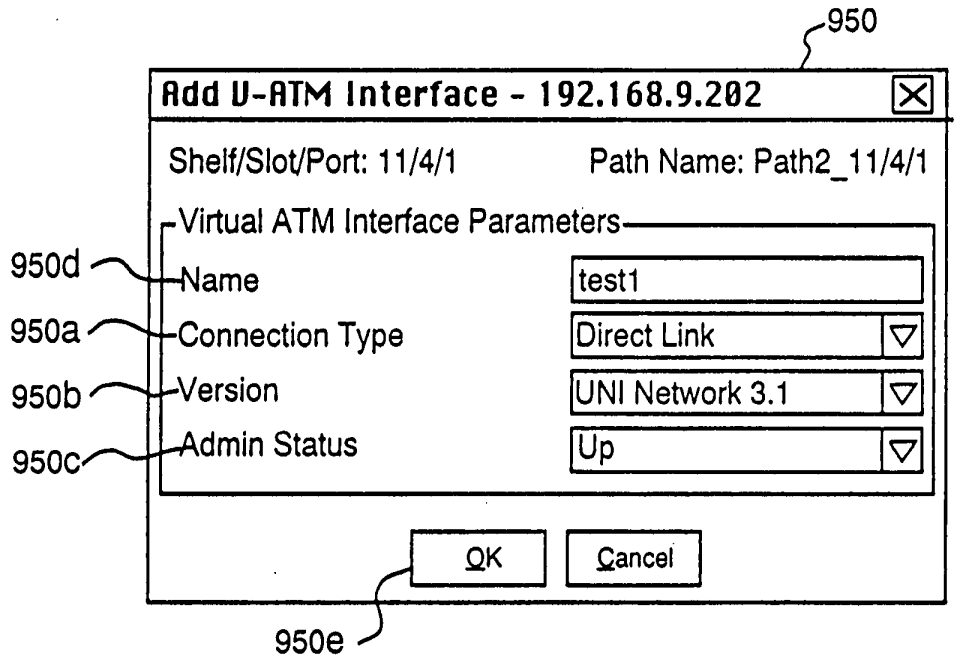

950
Add U-ATM Interface - 192.168.9.202
Shelf/Slot/Port: 11/4/1
Path Name: Path2_11/4/1
Virtual ATM Interface Parameters
950d
Name
test1
950a
Connection Type
Direct Link
950b
Version
UNI Network 3.1
950c
Admin Status
Up
OK
Cancel
950e

FIG. 5T

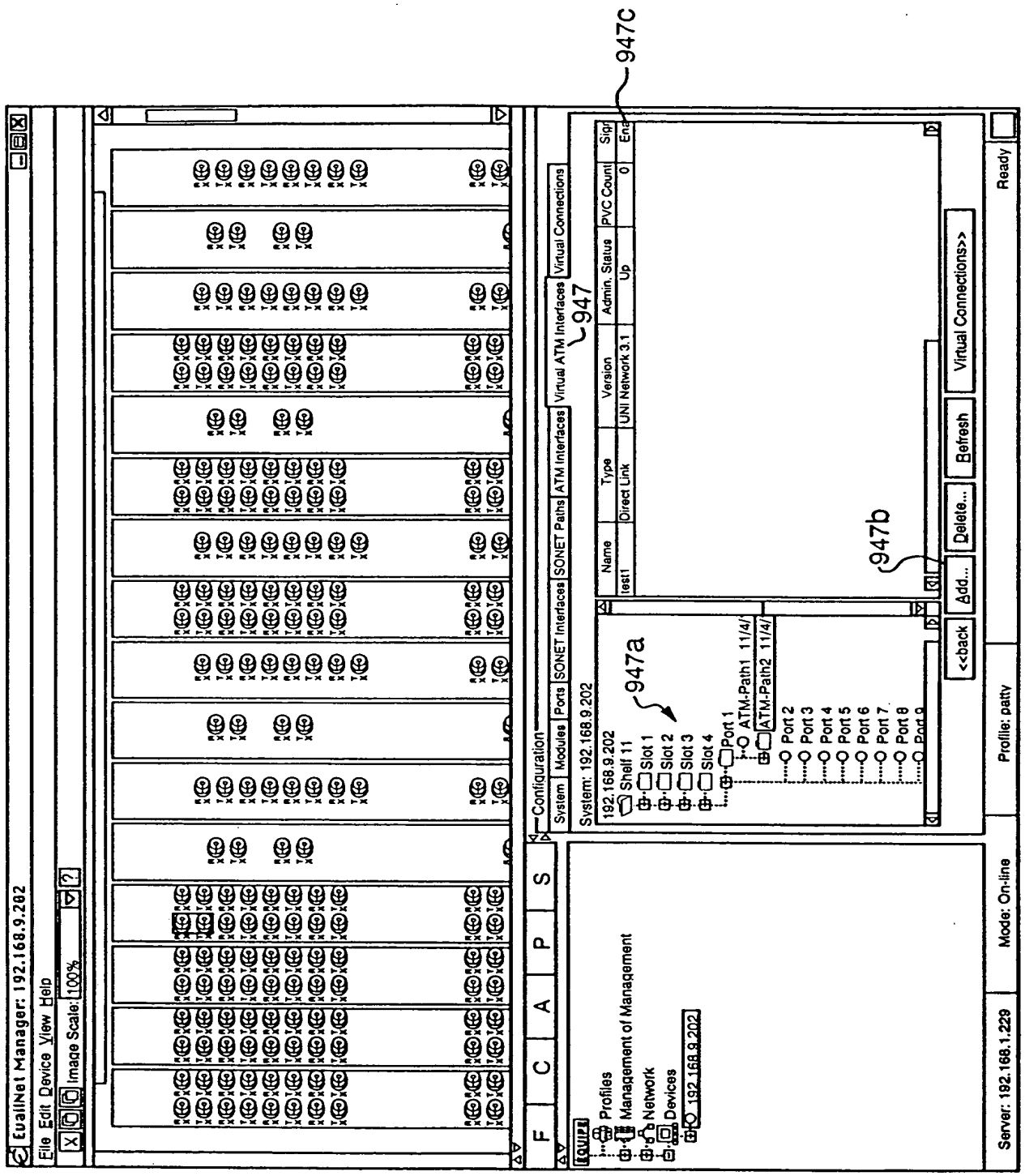

895
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
Configuration
System | Modules | Ports | SONET Interfaces | SONET Paths | ATM Interfaces | Virtual ATM Interfaces | Virtual Connections
947
947c
947a
947b
System: 192.168.9.202
192.168.9.202
Shelf 11
Slot 1
Slot 2
Slot 3
Slot 4
Port 1
ATM-Path1 11/4/
ATM-Path2 11/4/
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Name
Type
Version
Admin. Status
PVC Count
test1
Direct Link
UNI Network 3.1
Up
0
<<back
Add...
Delete...
Refresh
Virtual Connections>>
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5U

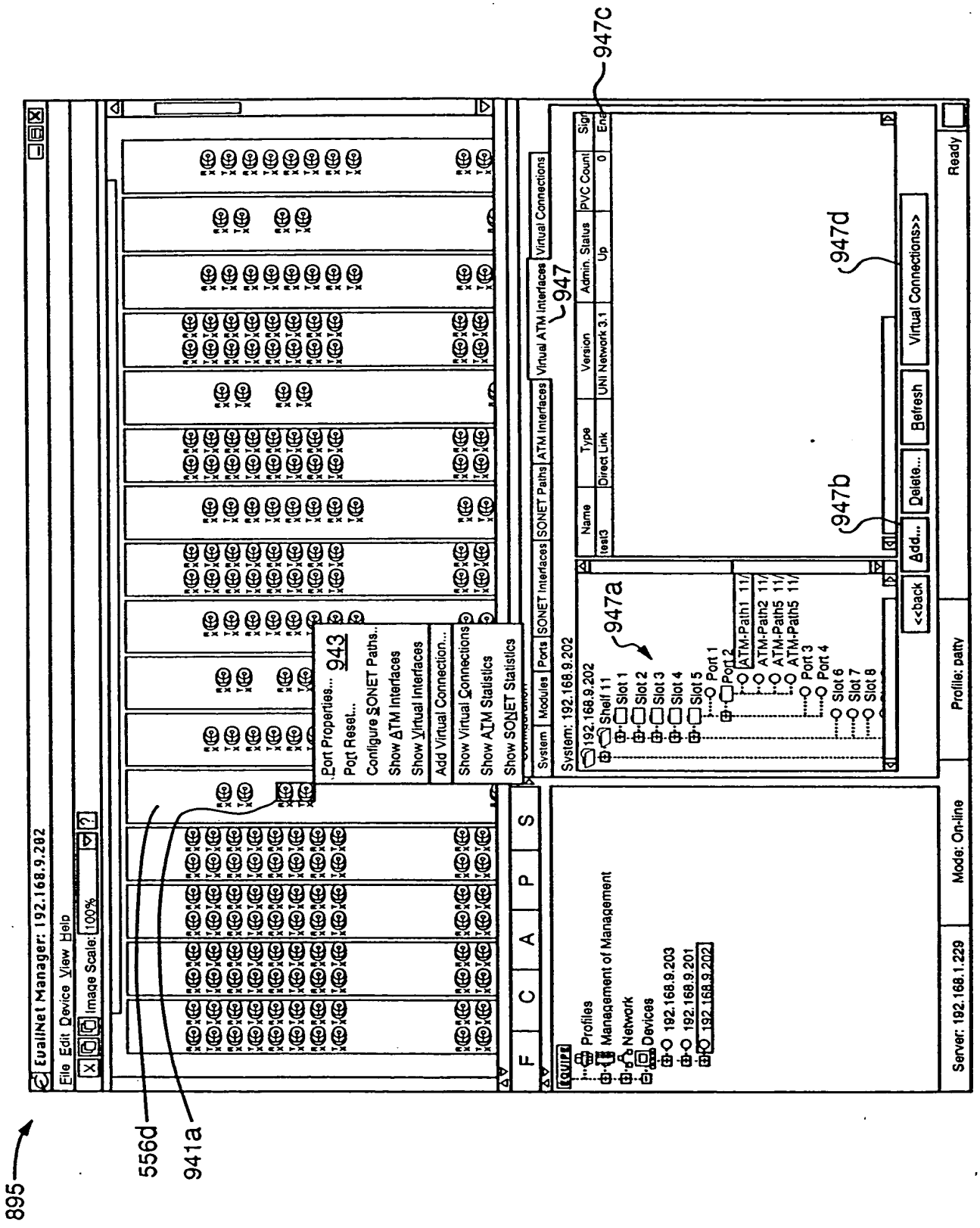

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
Port Properties... 943
Port Reset...
Configure SONET Paths...
Show ATM Interfaces
Show Virtual Interfaces
Add Virtual Connection...
Show Virtual Connections
Show ATM Statistics
Show SONET Statistics
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
947
947c
947a
947b
947d
Name Type Version Admin. Status PVC Count
test3 Direct Link UNI Network 3.1 Up 0
System: 192.168.9.202
192.168.9.202
Shelf 11
Slot 1
Slot 2
Slot 3
Slot 4
Slot 5
Slot 6
Slot 7
Slot 8
Port 1
Port 2
Port 3
Port 4
ATM-Path1
ATM-Path2
ATM-Path5
ATM-Path5
<<back
Add...
Delete...
Refresh
Virtual Connections>>
Profiles
Management of Management
Network
Devices
192.168.9.203
192.168.9.201
192.168.9.202
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
F C A P S
556d
941a
895

FIG. 5V

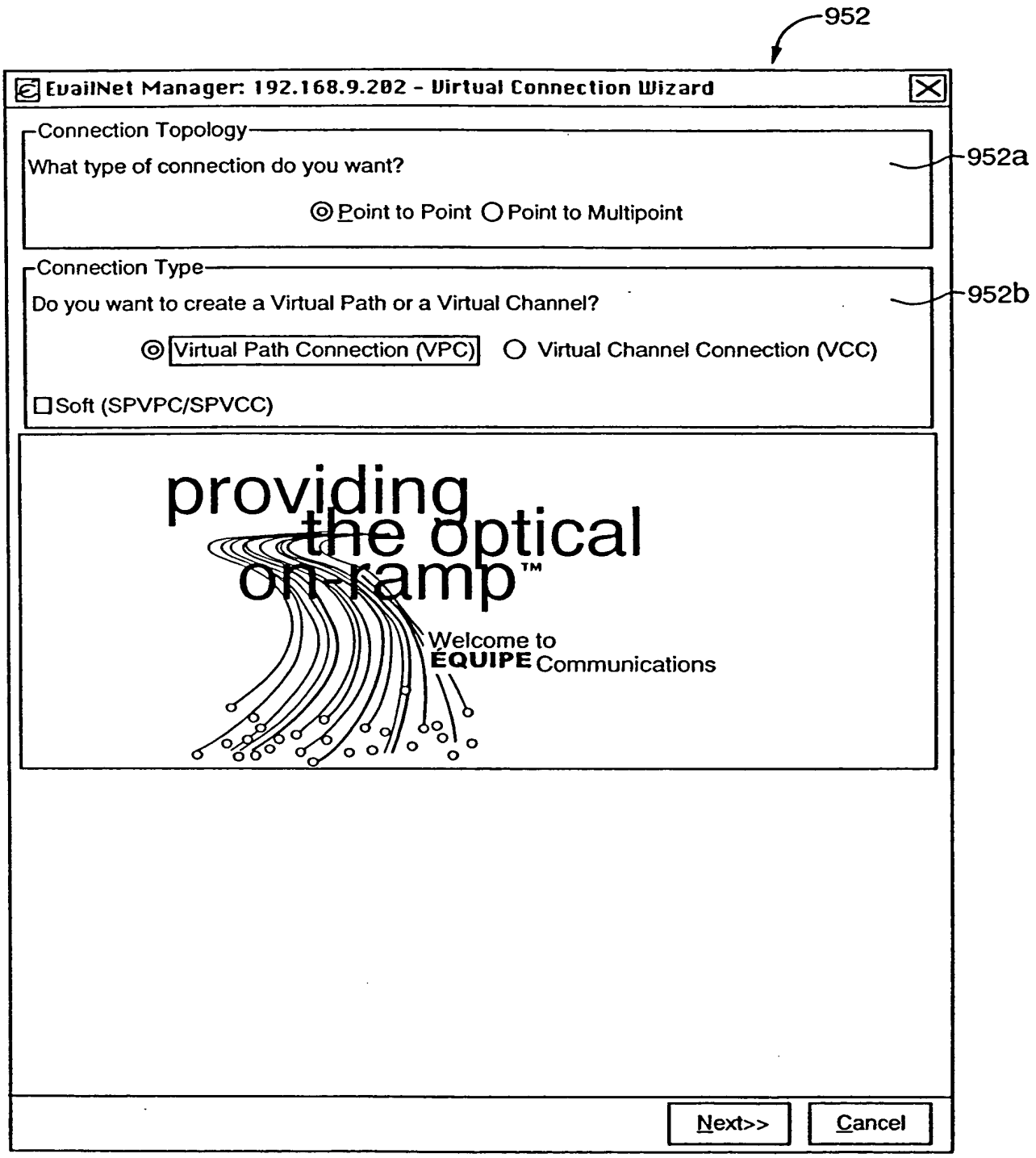

952
EvailNet Manager: 192.168.9.202 - Virtual Connection Wizard
Connection Topology
What type of connection do you want?
952a
Point to Point
Point to Multipoint
Connection Type
Do you want to create a Virtual Path or a Virtual Channel?
952b
Virtual Path Connection (VPC)
Virtual Channel Connection (VCC)
Soft (SPVPC/SPVCC)
providing
the optical
on-ramp™
Welcome to
ÉQUIPE Communications
Next>>
Cancel

FIG. 5W

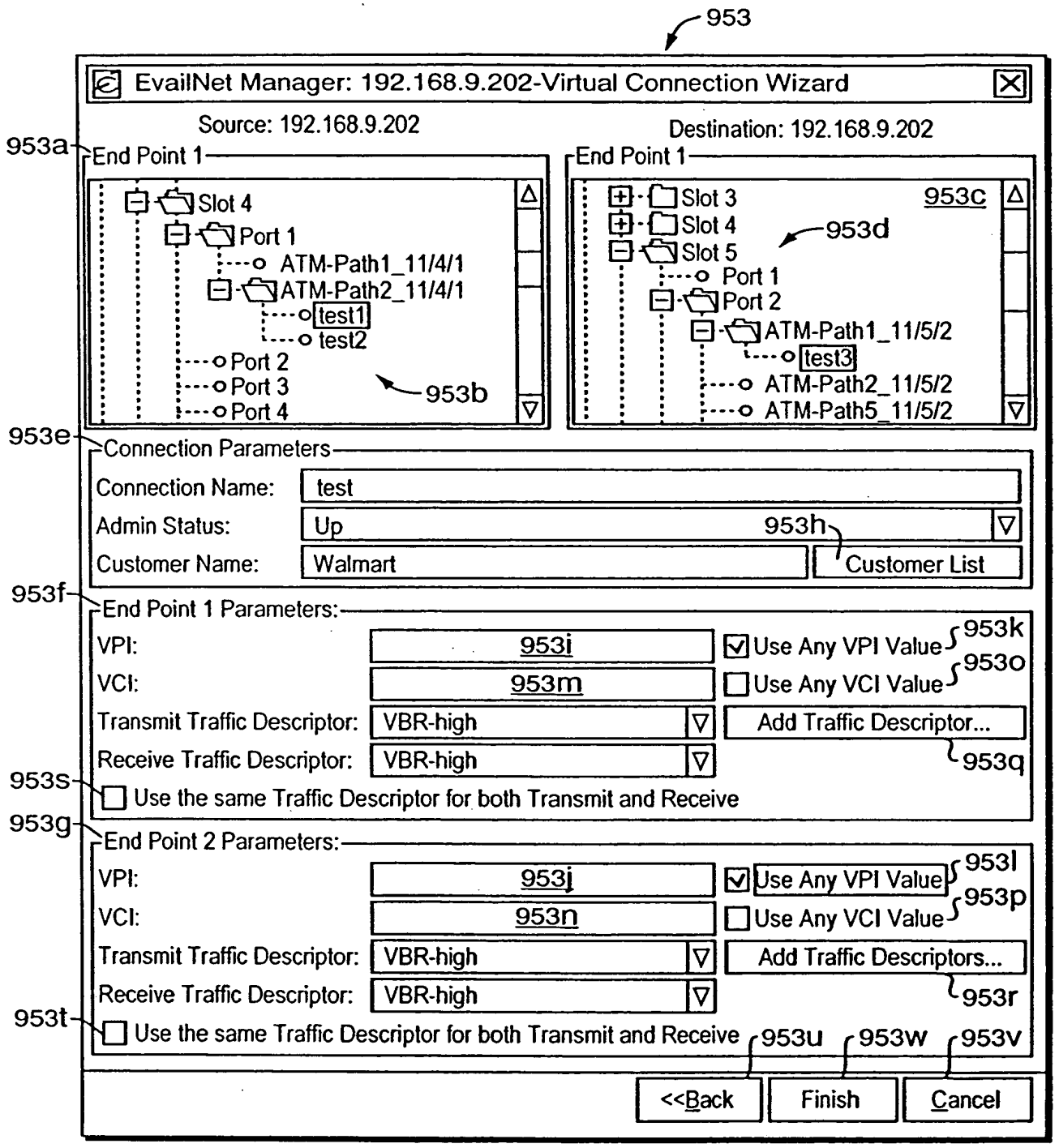

953
EvailNet Manager: 192.168.9.202-Virtual Connection Wizard
Source: 192.168.9.202
Destination: 192.168.9.202
953a
End Point 1
Slot 4
Port 1
ATM-Path1_11/4/1
ATM-Path2_11/4/1
test1
test2
Port 2
Port 3
Port 4
953b
End Point 1
Slot 3
953c
Slot 4
953d
Slot 5
Port 1
Port 2
ATM-Path1_11/5/2
test3
ATM-Path2_11/5/2
ATM-Path5_11/5/2
953e
Connection Parameters
Connection Name:
test
Admin Status:
Up
953h
Customer Name:
Walmart
Customer List
953f
End Point 1 Parameters:
VPI:
953i
Use Any VPI Value
953k
VCI:
953m
Use Any VCI Value
953o
Transmit Traffic Descriptor:
VBR-high
Add Traffic Descriptor...
Receive Traffic Descriptor:
VBR-high
953q
953s
Use the same Traffic Descriptor for both Transmit and Receive
953g
End Point 2 Parameters:
VPI:
953j
Use Any VPI Value
953l
VCI:
953n
Use Any VCI Value
953p
Transmit Traffic Descriptor:
VBR-high
Add Traffic Descriptors...
Receive Traffic Descriptor:
VBR-high
953r
953t
Use the same Traffic Descriptor for both Transmit and Receive
953u
953w
953v
<<Back
Finish
Cancel

FIG. 5X

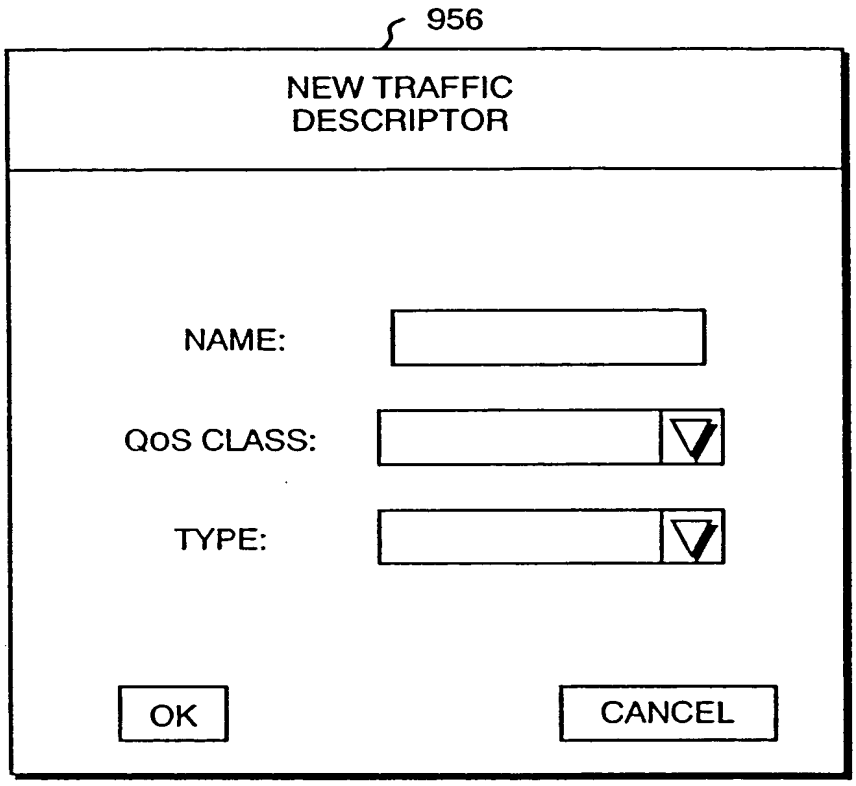


FIG. 5Y

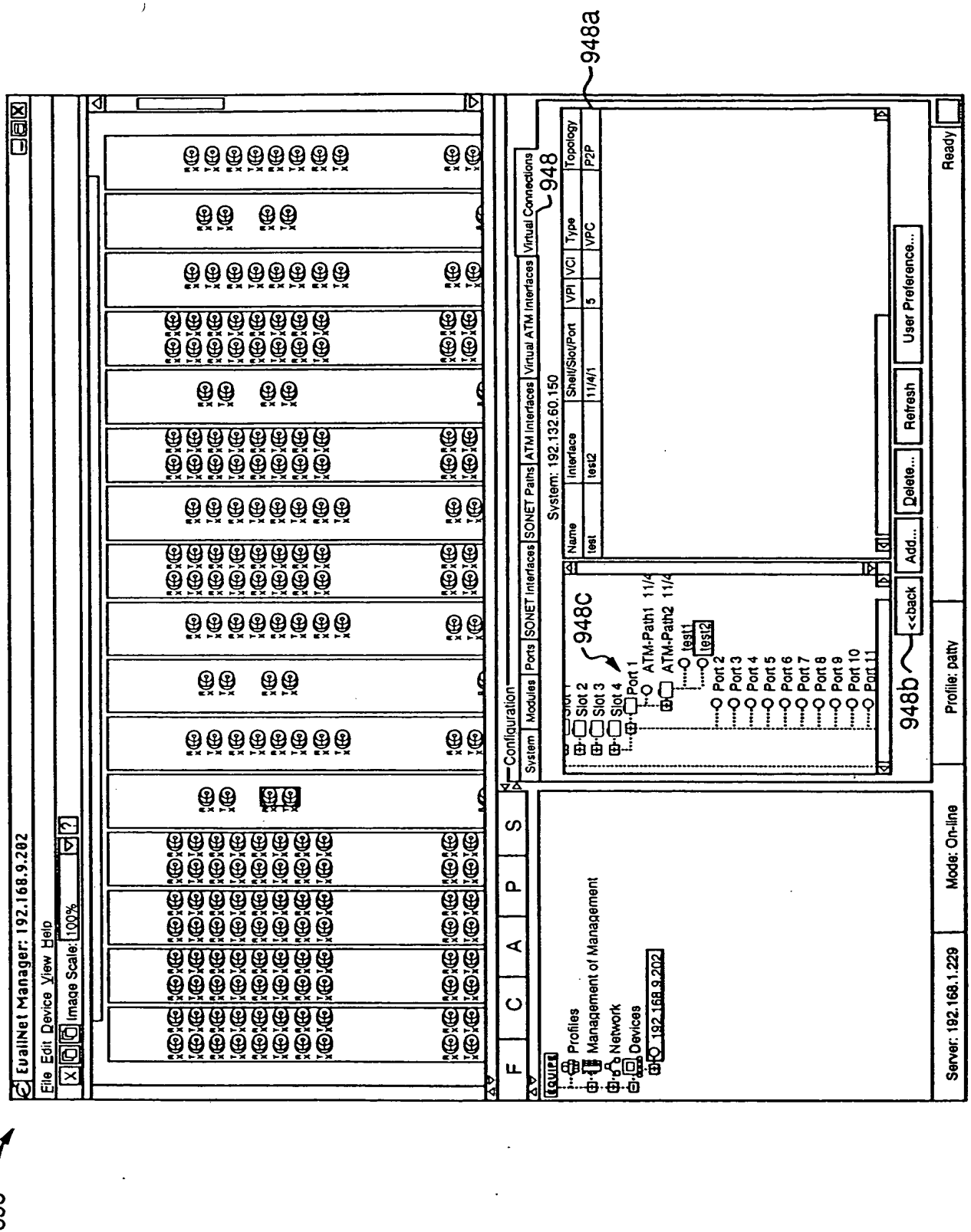

895
948a
948
948c
948b
EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.132.60.150
Name Interface Shelf/Slot/Port VPI VCI Type Topology
test test2 11/4/1 5 VPC P2P
Slot 1
Slot 2
Slot 3
Slot 4
Port 1
ATM-Path1 11/4
ATM-Path2 11/4
test1
test2
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Port 9
Port 10
Port 11
<<back
Add...
Delete...
Refresh
User Preference...
Profiles
Management of Management
Network
Devices
192.168.9.202
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 5Z

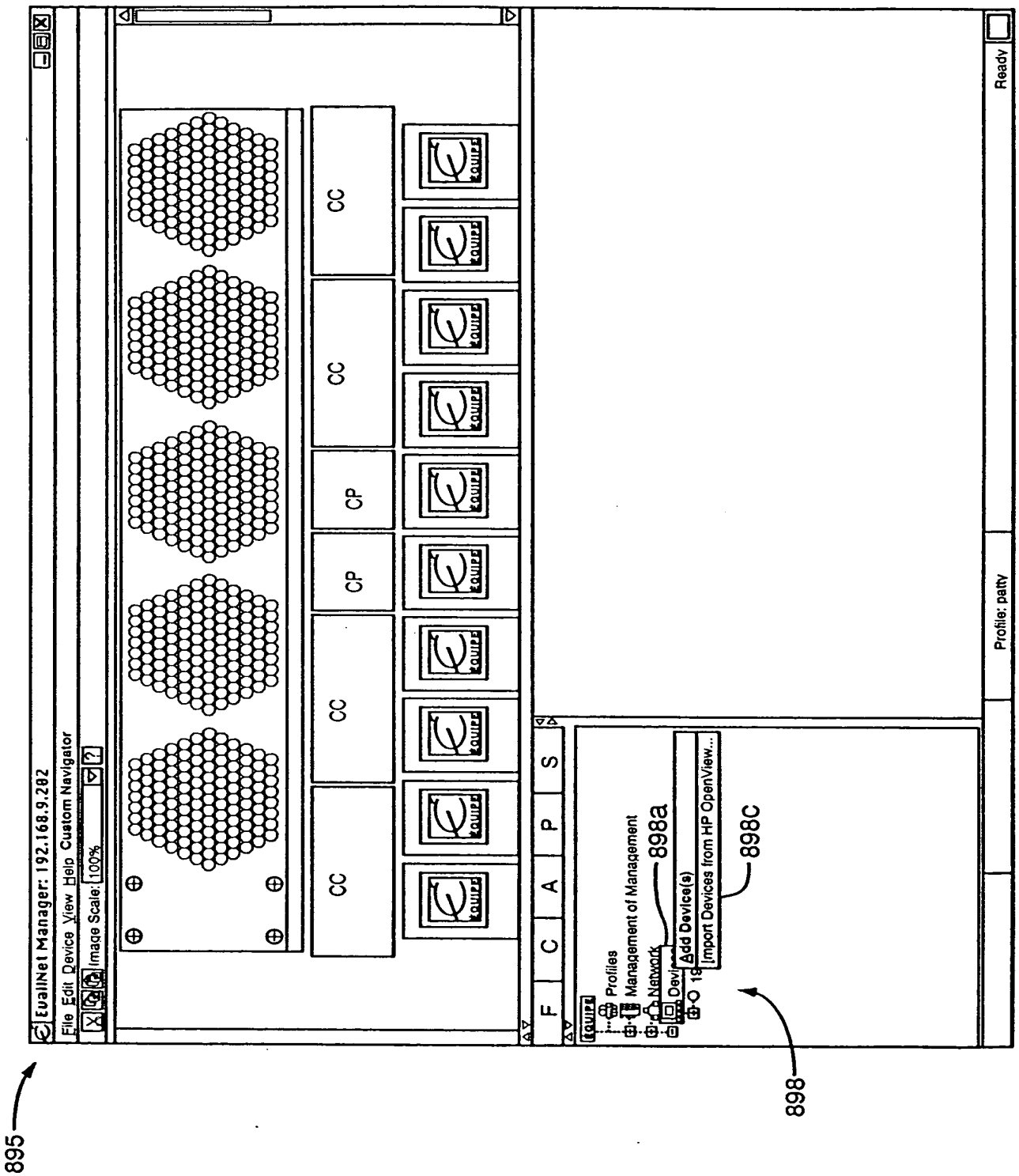

EvaliNet Manager: 192.168.9.282
File Edit Device View Help Custom Navigator
Image Scale: 100%
CC
CP
F C A P S
Profiles
Management of Management
Network
Add Device(s)
Import Devices from HP OpenView...
898a
898c
898
895
Profile: patty
Ready

FIG. 6A

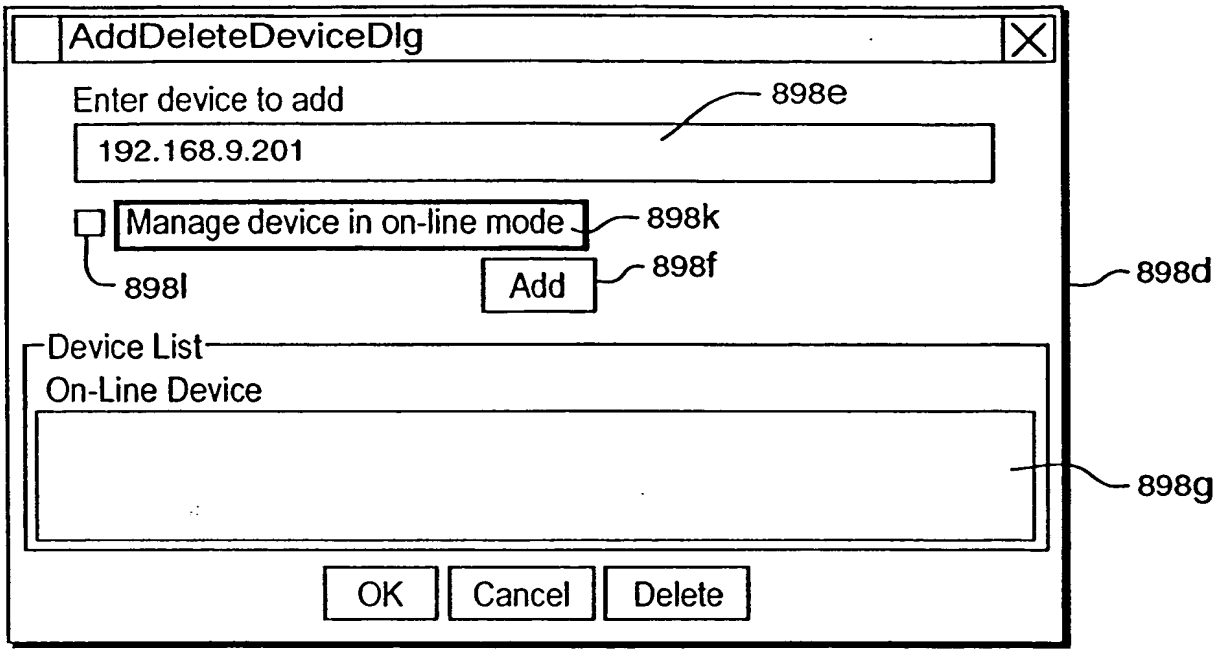

AddDeleteDeviceDlg
Enter device to add
898e
192.168.9.201
Manage device in on-line mode
898k
898l
Add
898f
898d
Device List
On-Line Device
898g
OK
Cancel
Delete

FIG. 6B

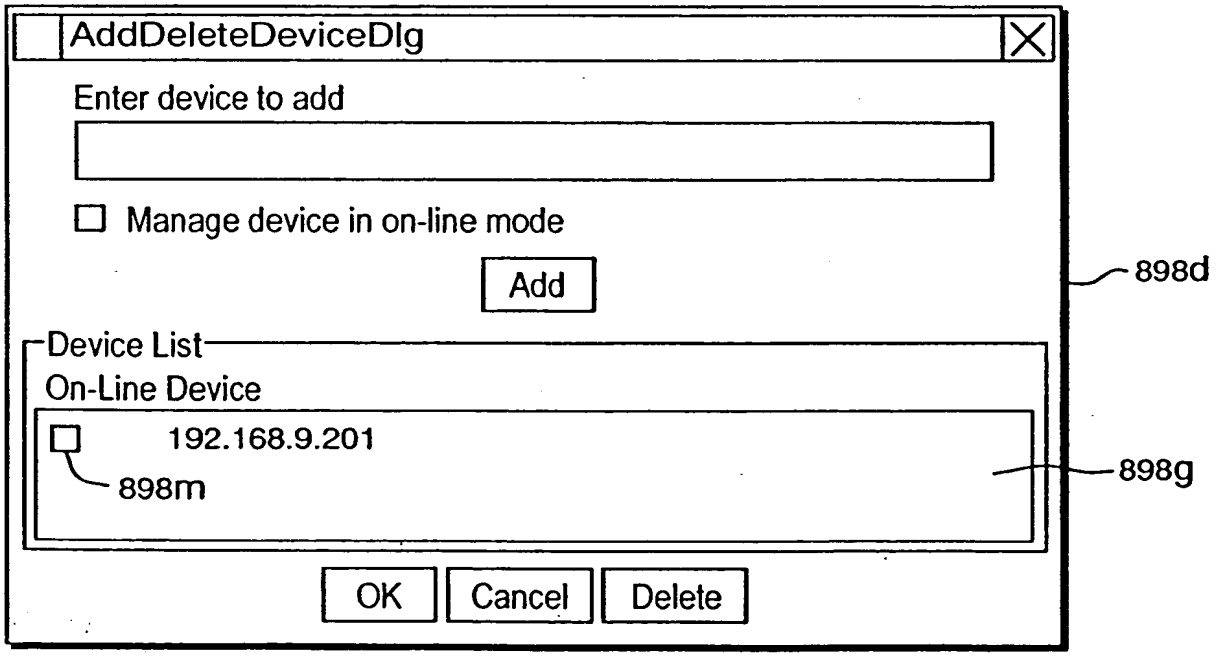

AddDeleteDeviceDlg
Enter device to add
Manage device in on-line mode
Add
898d
Device List
On-Line Device
192.168.9.201
898m
898g
OK
Cancel
Delete

FIG. 6C

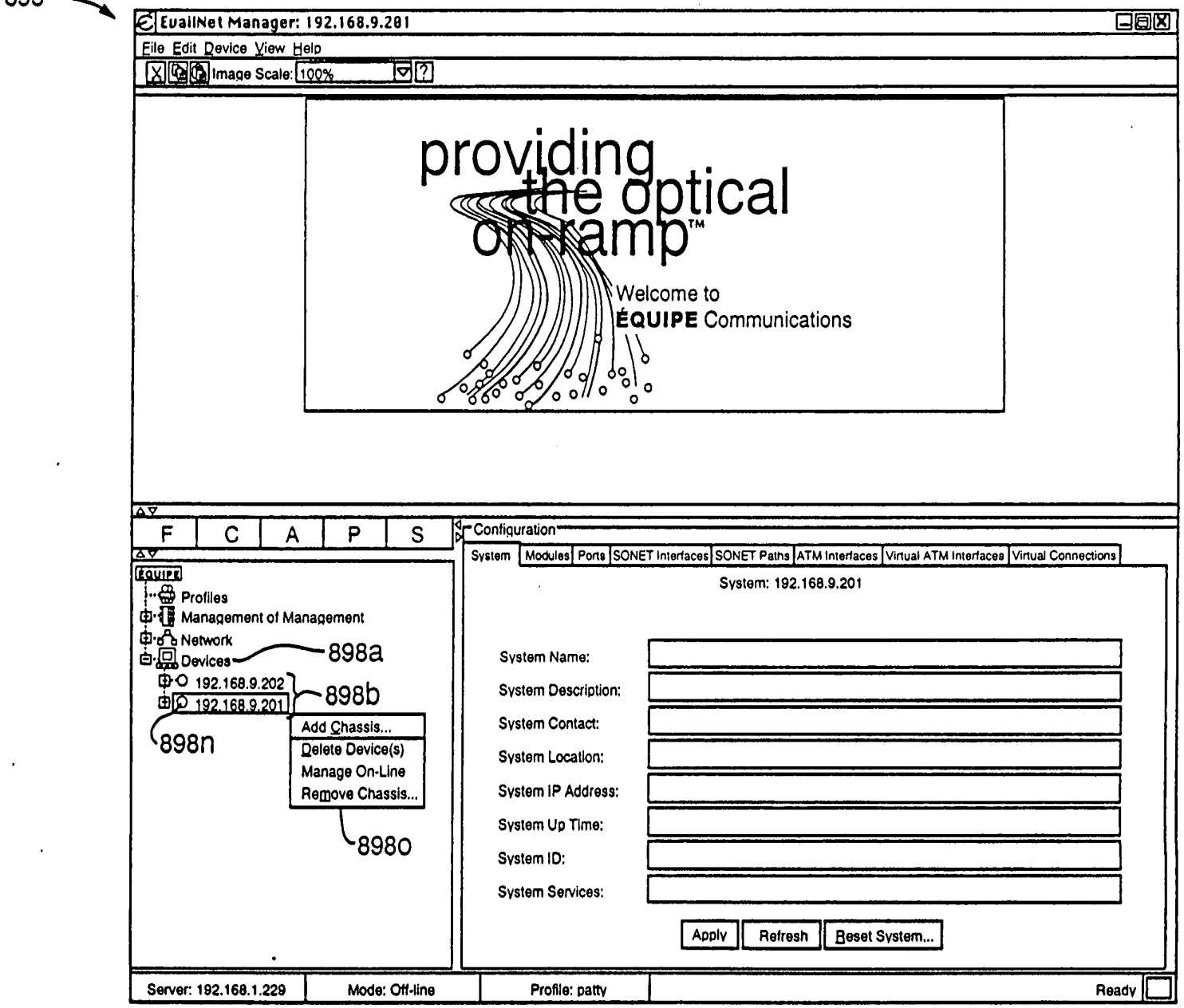

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
providing the optical on-ramp™
Welcome to
ÉQUIPE Communications
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
ÉQUIPE
Profiles
Management of Management
Network
Devices
898a
192.168.9.202
898b
192.168.9.201
898n
Add Chassis...
Delete Device(s)
Manage On-Line
Remove Chassis...
898o
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6D

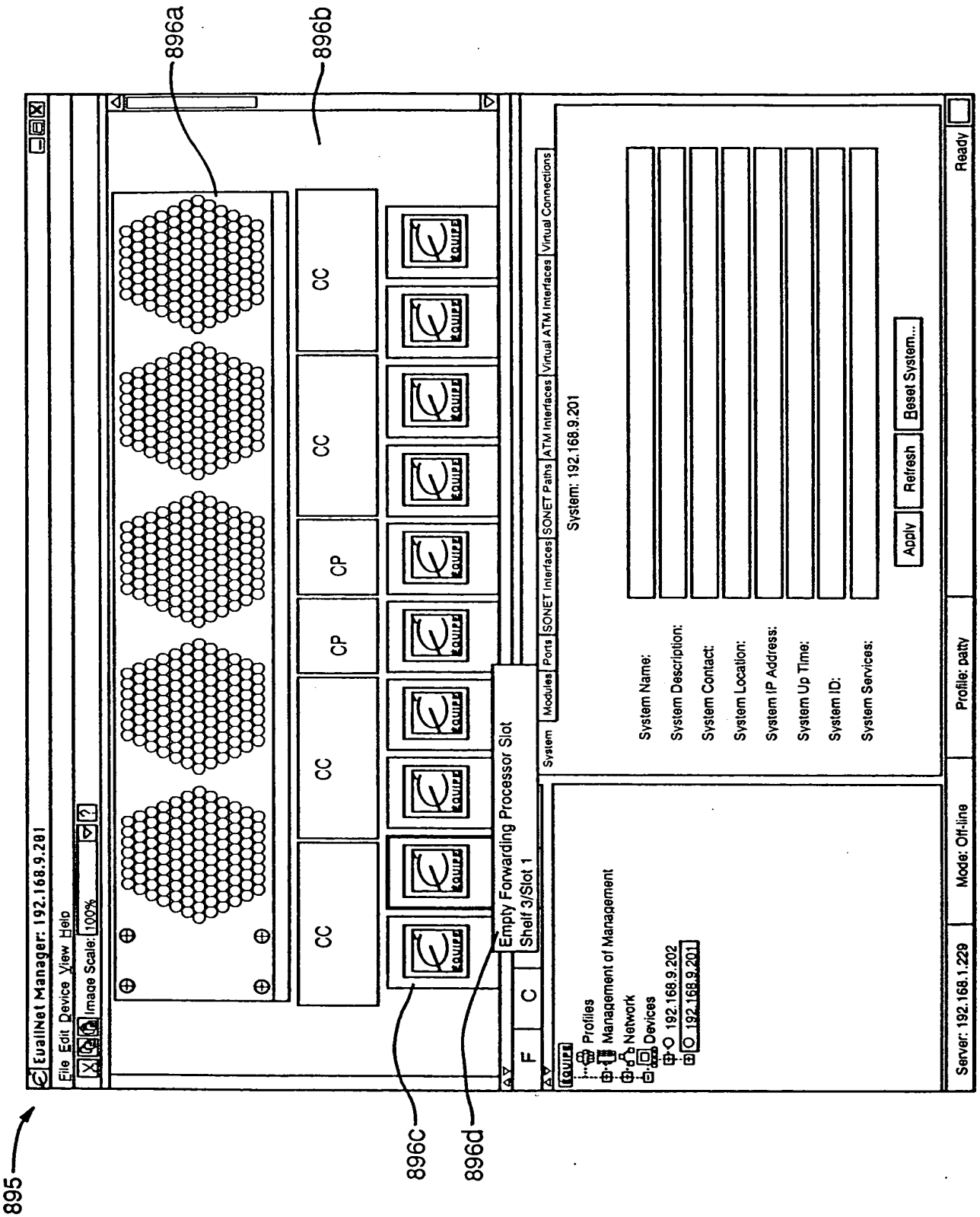

895
896a
896b
896c
896d
EualNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CP
Empty Forwarding Processor Slot
Shelf 3/Slot 1
F
C
Profiles
Management of Management Network
Devices
192.168.9.202
192.168.9.201
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6E

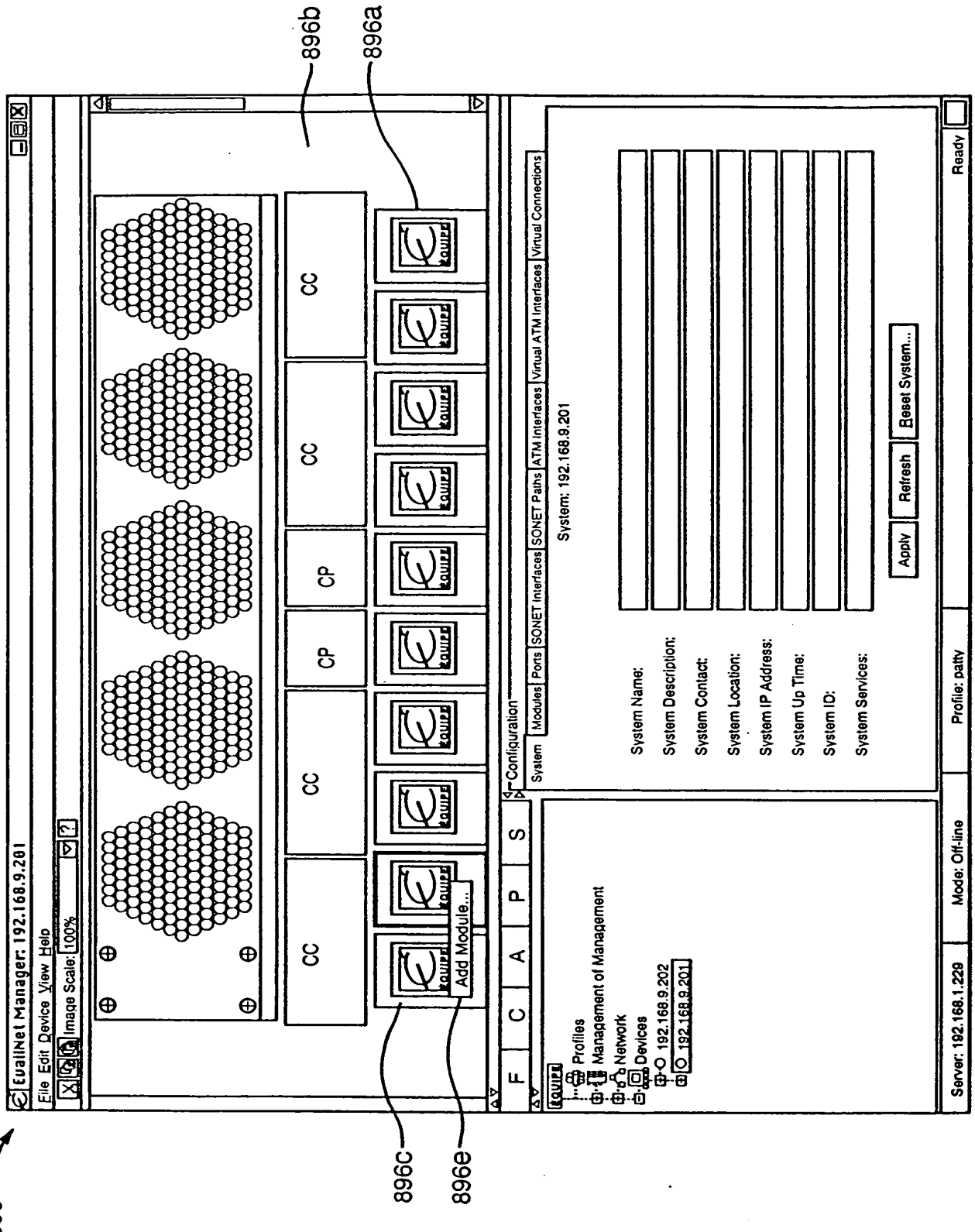

EualiNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
896b
896a
896c
896e
895
CC
CP
Add Module...
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6F

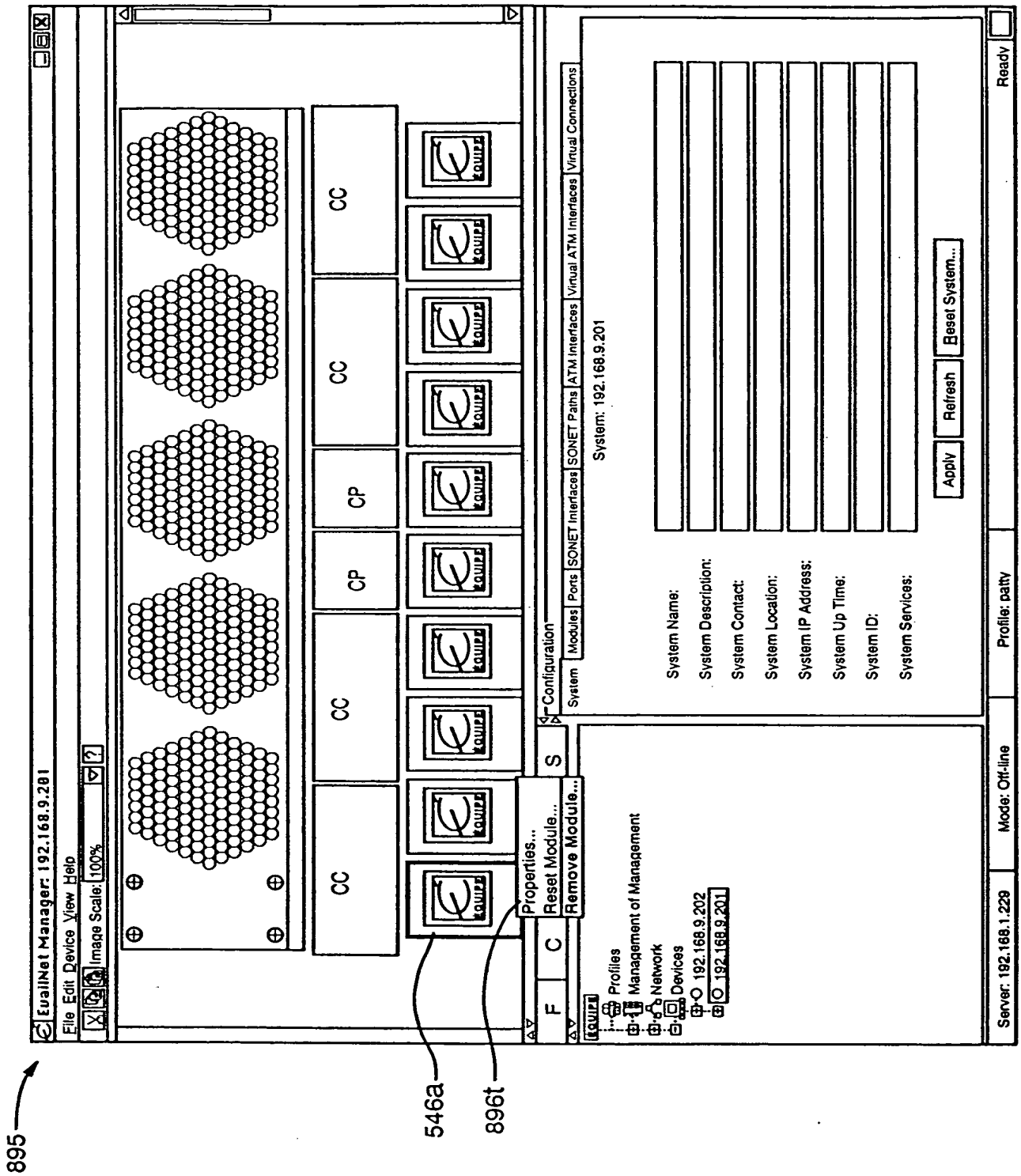

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CP
Properties...
Reset Module...
Remove Module...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready
895
546a
896t

FIG. 6G

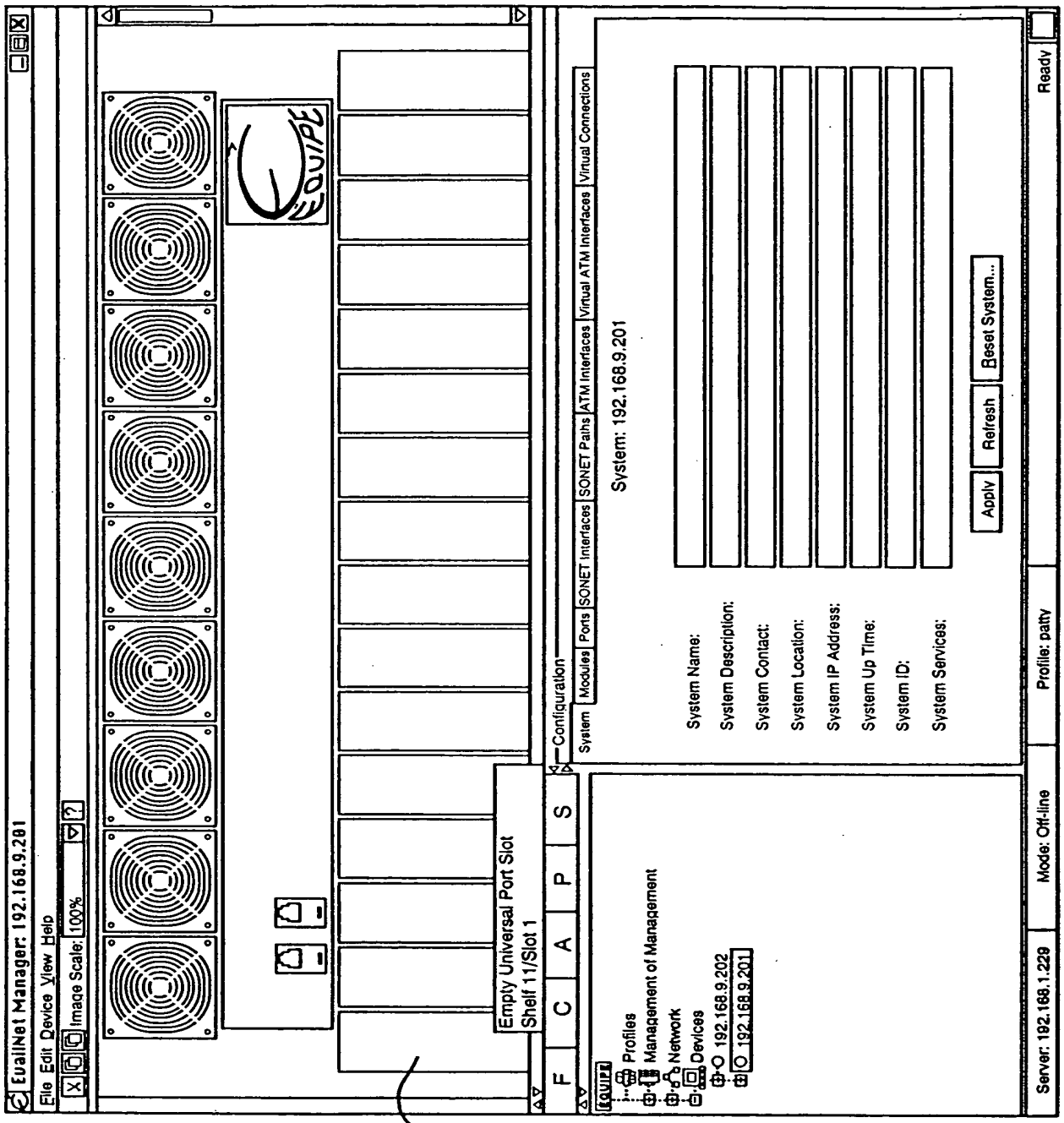

EualiNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
Empty Universal Port Slot
Shelf 11/Slot 1
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply Refresh Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready
895
896f

FIG. 6H

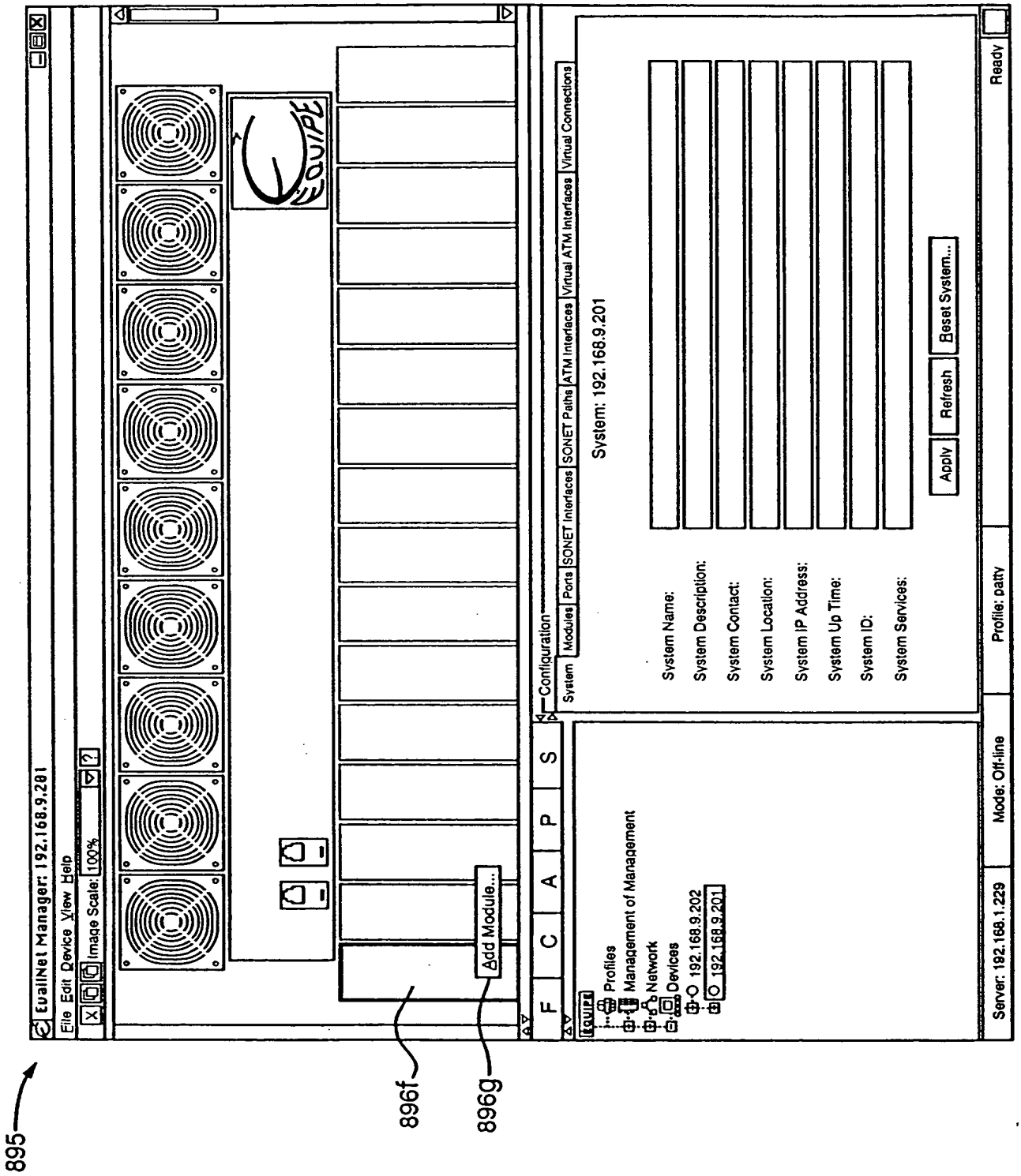

EqualNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
EQUIPE
Add Module...
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
Profiles
Management of Management Network
Devices
192.168.9.202
192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready
895
896f
896g

FIG. 6I

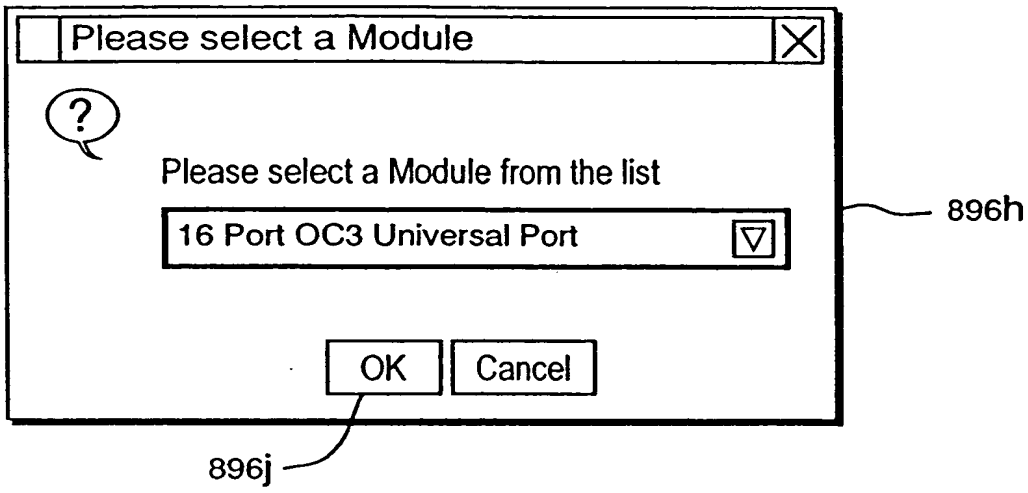


FIG. 6J

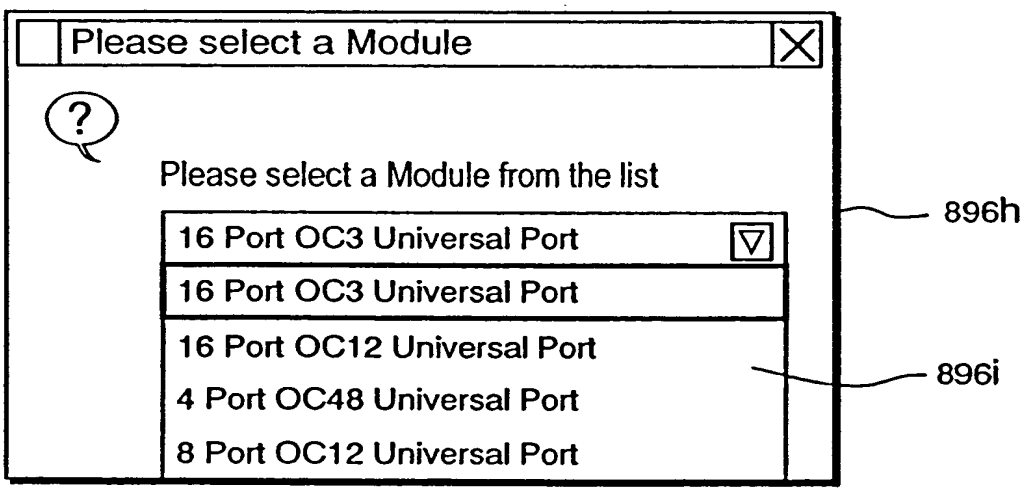


FIG. 6K

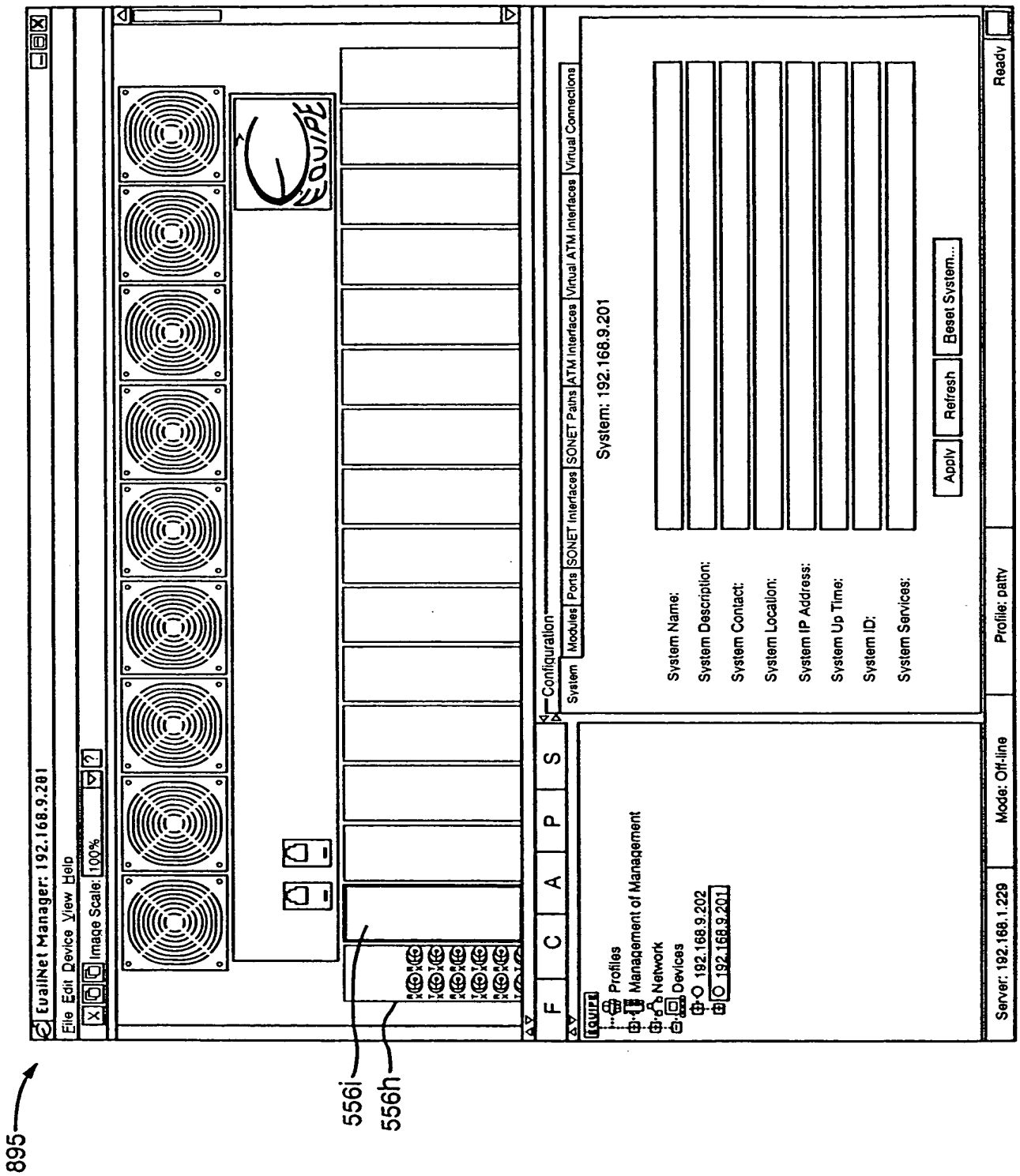

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
EQUIPE
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
Equipe
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready
895
556i
556h

FIG. 6L

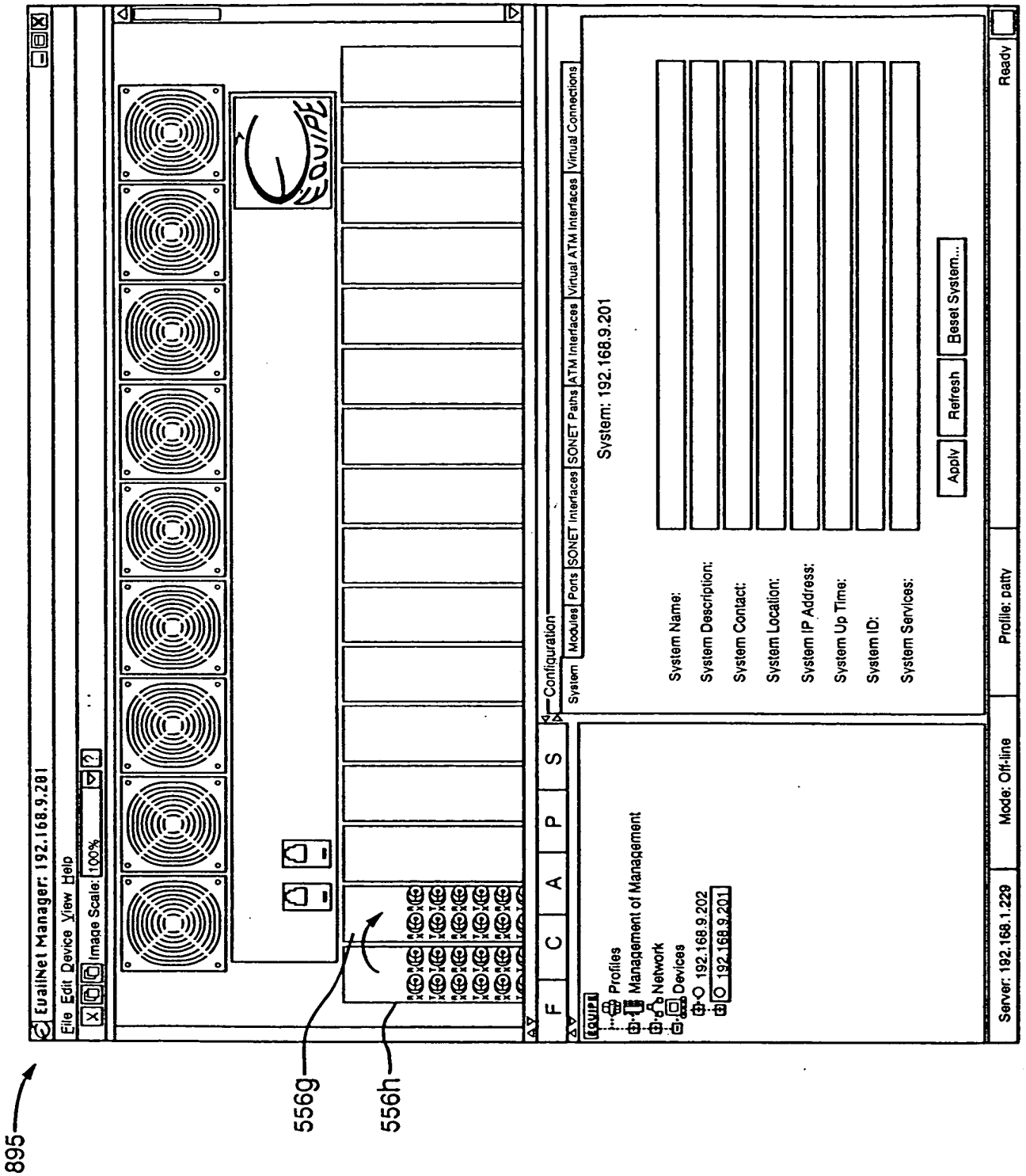

EtaliNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply Refresh Reset System...
Equipt
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready
895
556g
556h

FIG. 6M

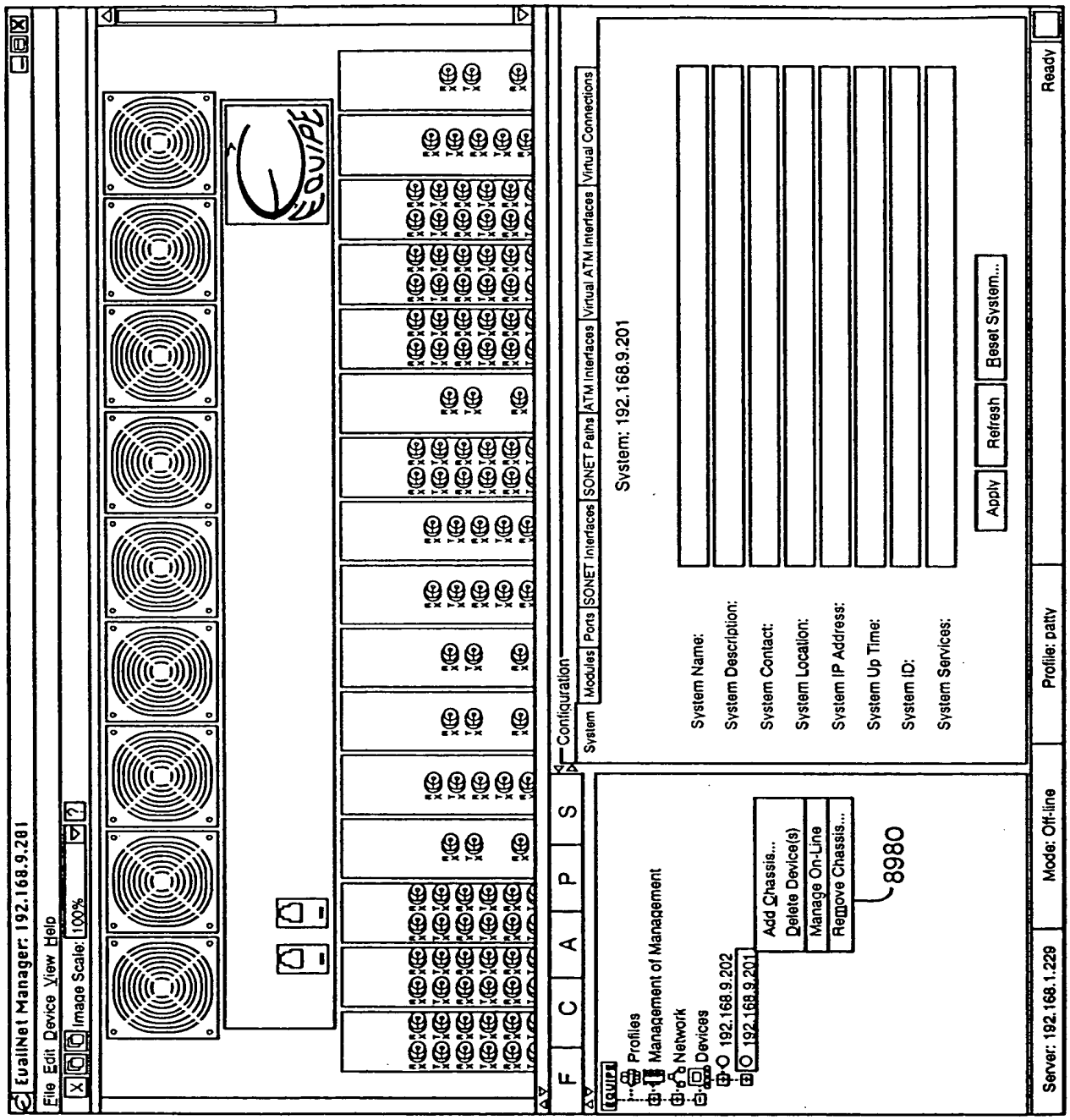

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply Refresh Reset System...
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Add Chassis...
Delete Device(s)
Manage On-Line
Remove Chassis...
8980
895
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 6N

895

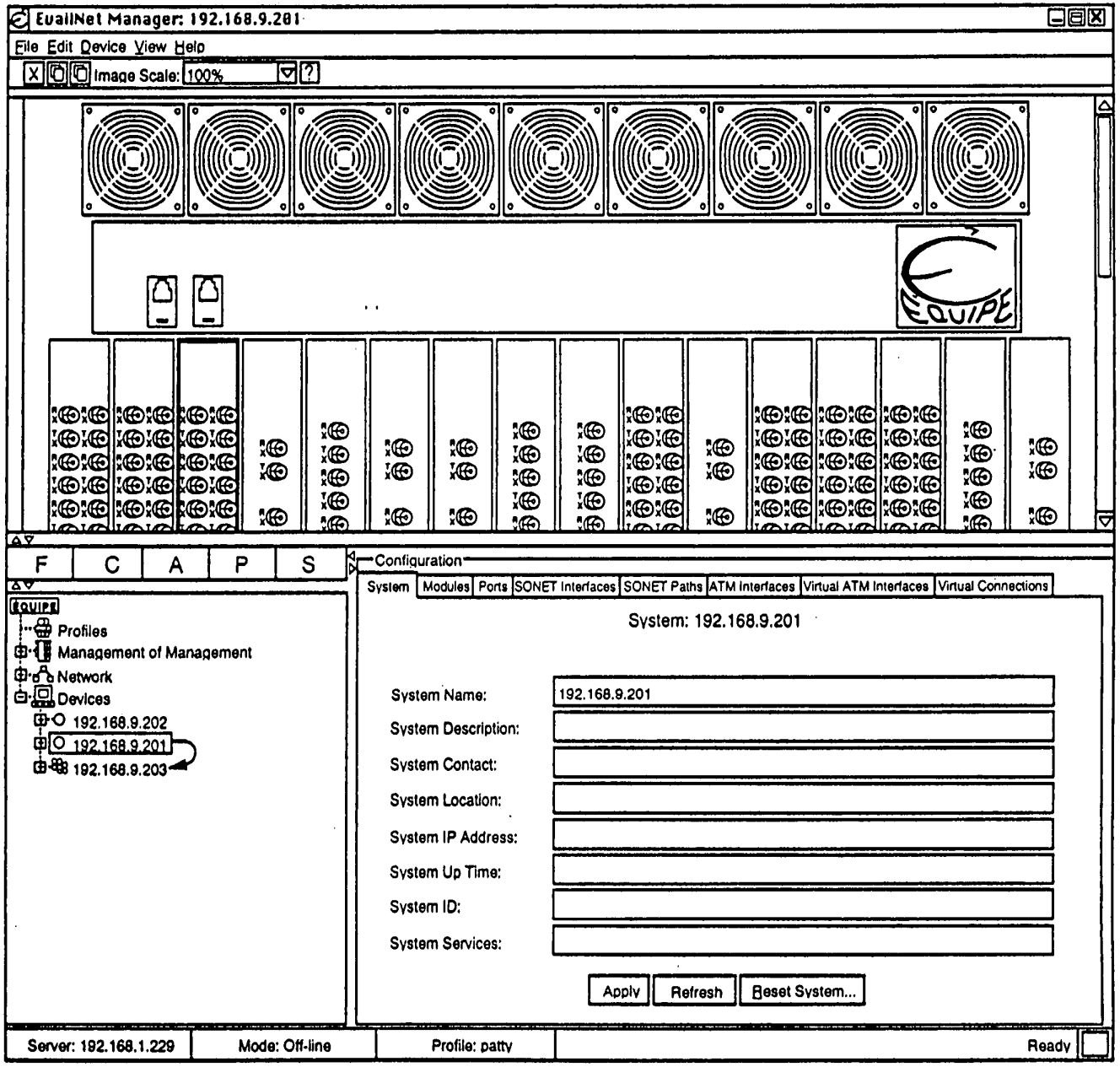

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
EQUIPE
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
EQUIPE
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.203
System: 192.168.9.201
System Name: 192.168.9.201
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
Apply Refresh Reset System...
Server: 192.168.1.229
Mode: Off-line
Profile: patty
Ready

FIG. 60

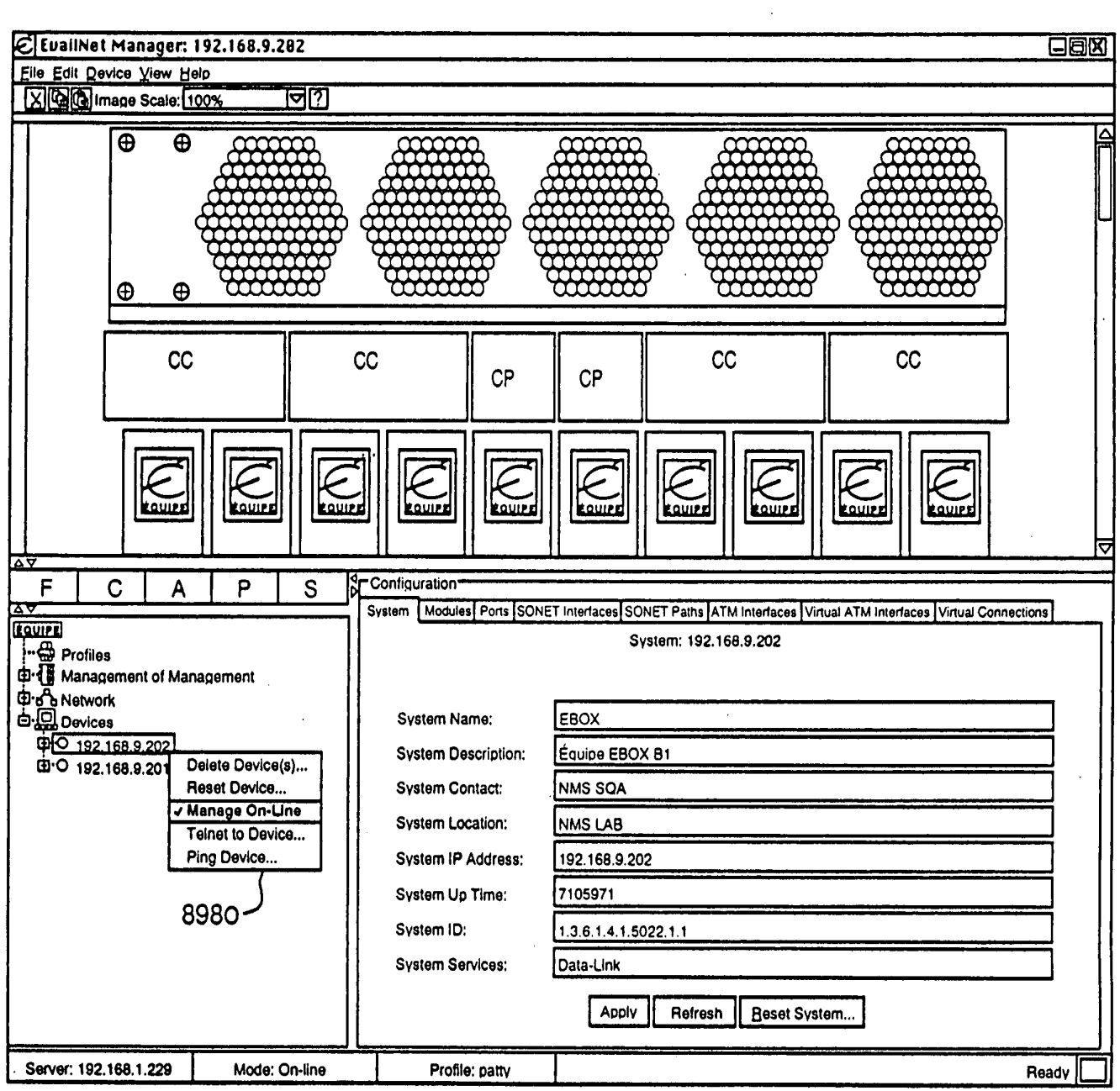

895
EvalINet Manager: 192.168.9.282
File Edit Device View Help
Image Scale: 100%
CC
CC
CP
CP
CC
CC
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.202
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Delete Device(s)...
Reset Device...
✓ Manage On-Line
Telnet to Device...
Ping Device...
8980
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 7105971
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 6P

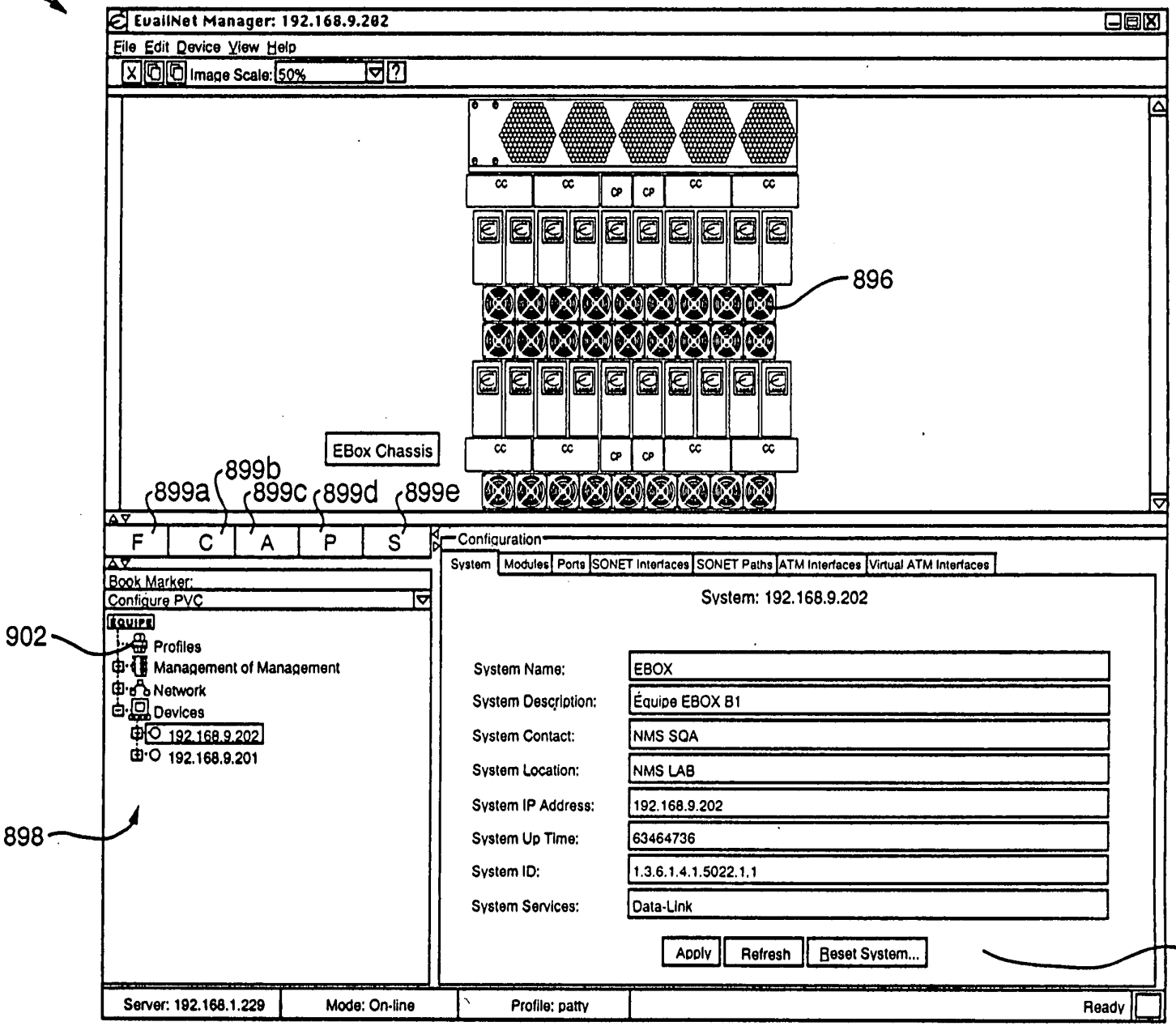

895
EvailNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 50%
896
EBox Chassis
899a
899b
899c
899d
899e
F
C
A
P
S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
System: 192.168.9.202
Book Marker:
Configure PVC
902
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
898
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.202
System Up Time: 63464736
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
897
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 7A

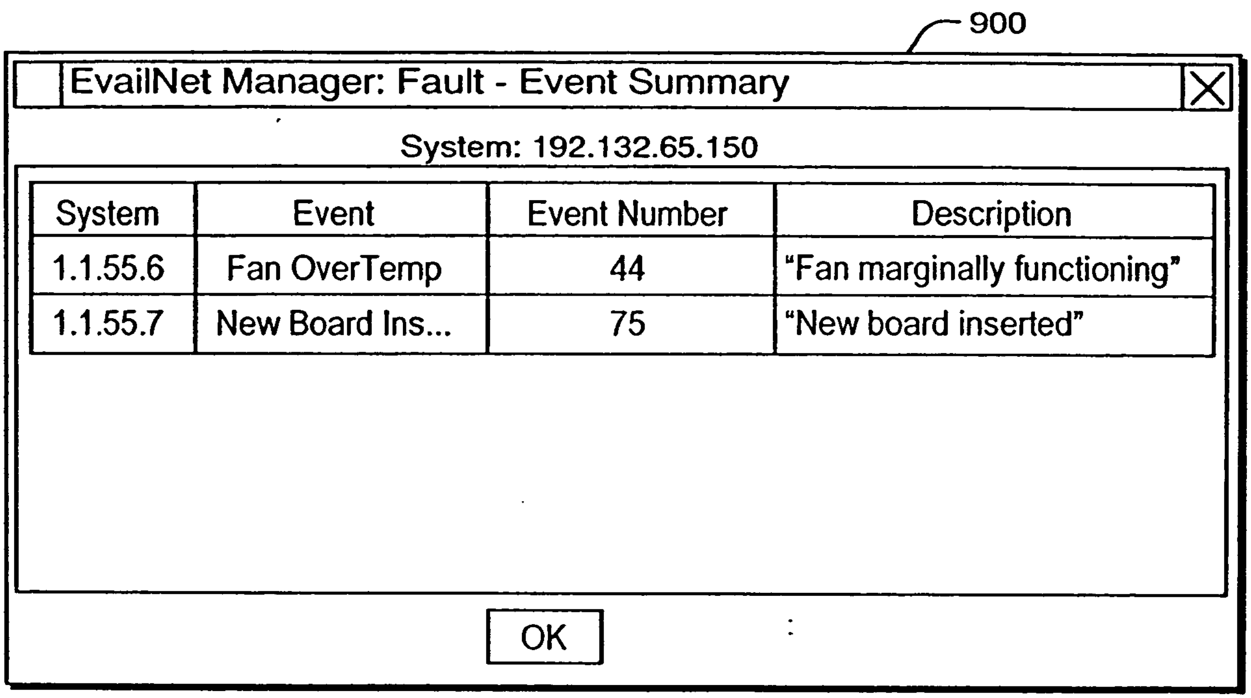


FIG. 7B

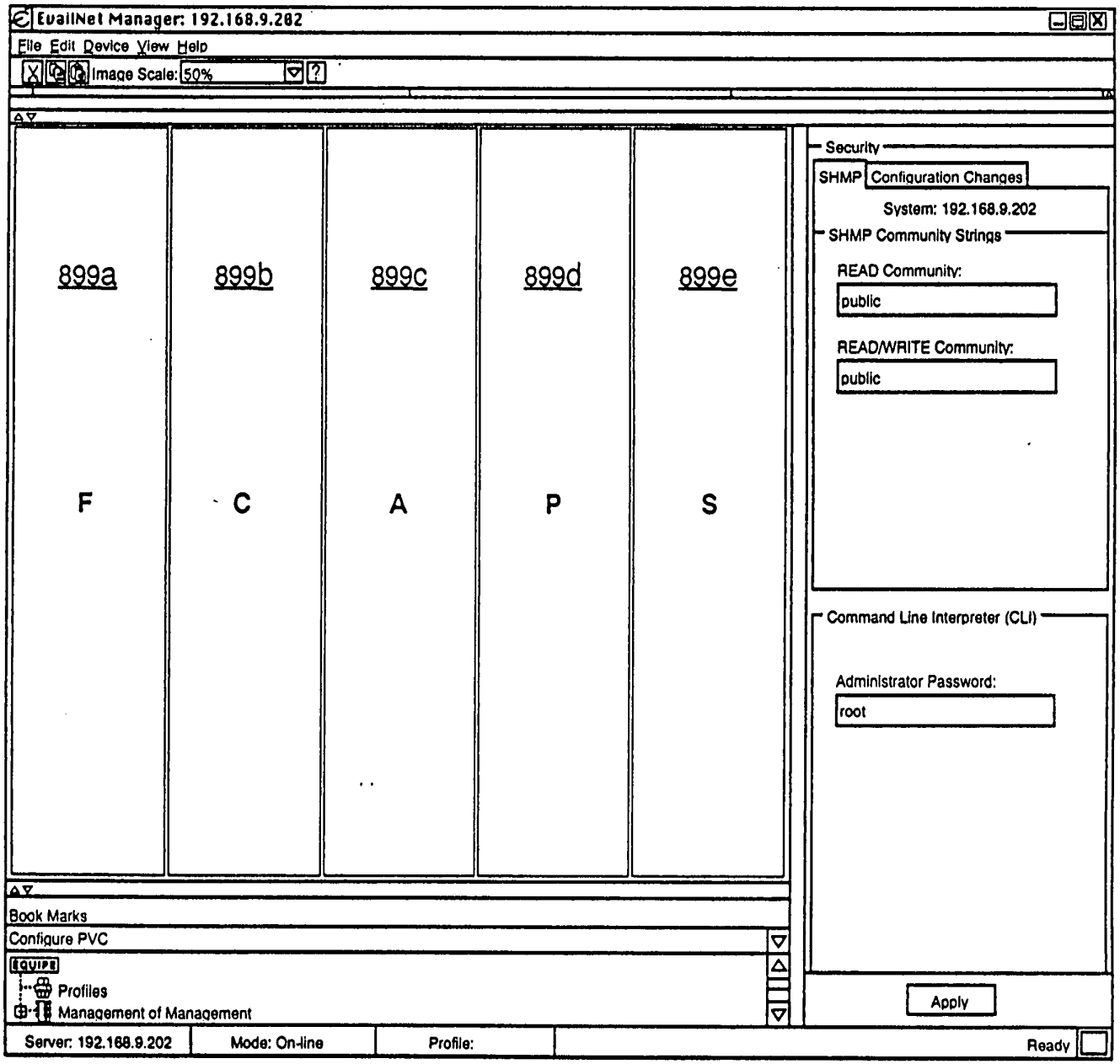


FIG. 7C

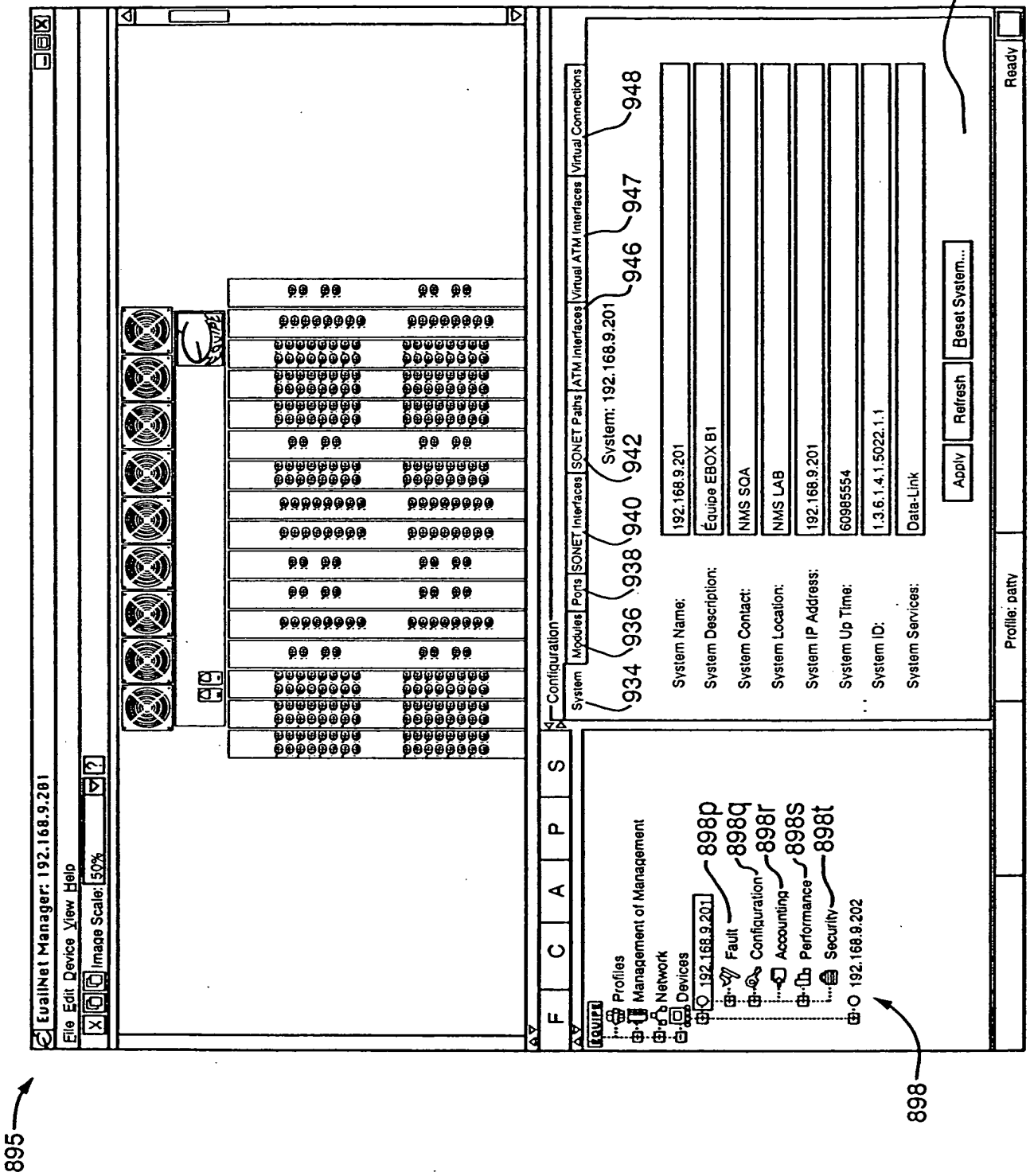

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
F C A P S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name: 192.168.9.201
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.201
System Up Time: 60985554
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply
Refresh
Reset System...
Ready
Profile: patty
Profiles
Management of Management
Network
Devices
192.168.9.201
192.168.9.202
Fault
Configuration
Accounting
Performance
Security
895
898
897
934
936
938
940
942
946
947
948
898p
898q
898r
898s
898t

FIG. 7D

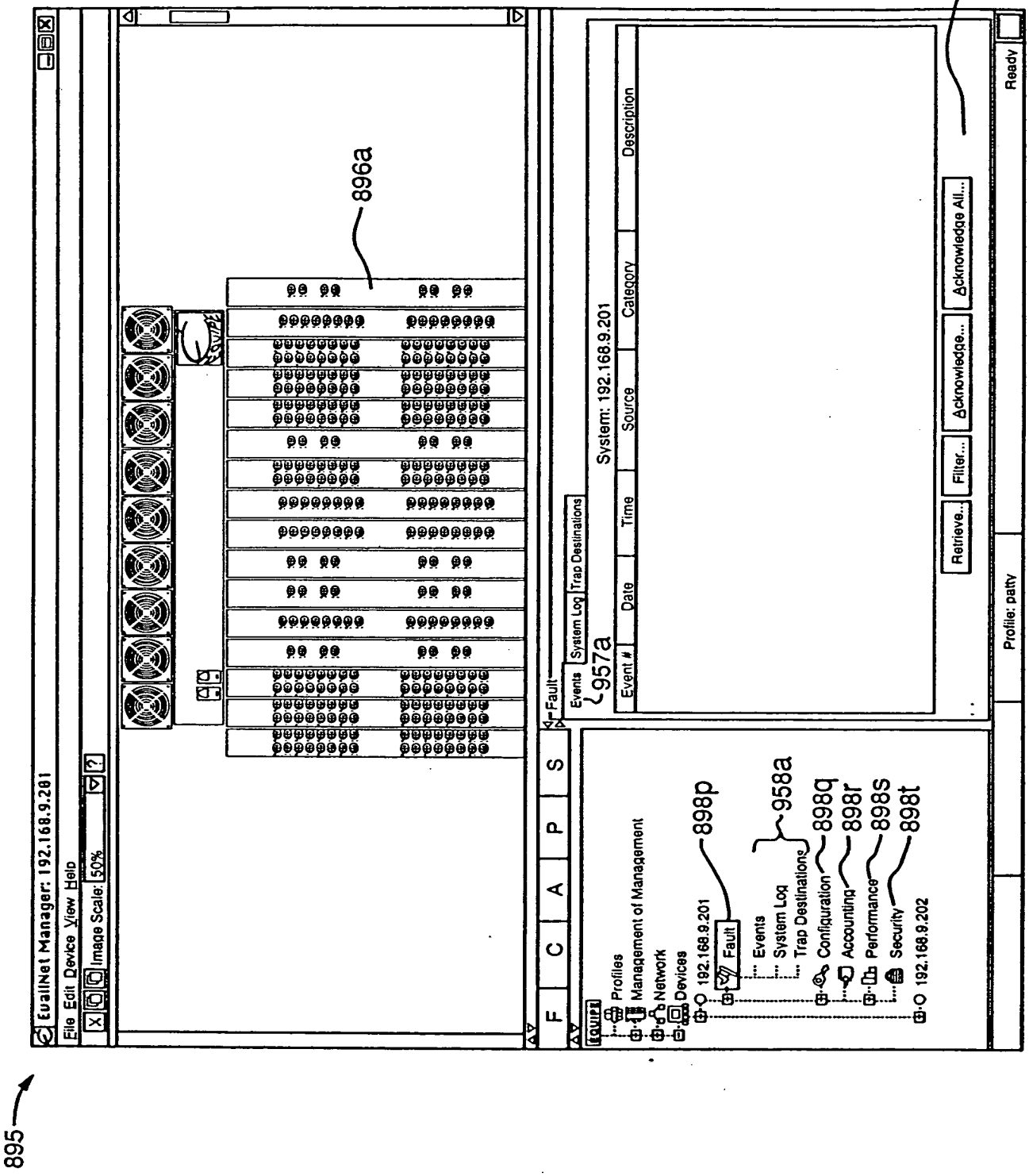

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
897
Fault
Events
System Log
Trap Destinations
957a
System: 192.168.9.201
Event #
Date
Time
Source
Category
Description
Retrieve...
Filter...
Acknowledge...
Acknowledge All...
Ready
Profile: patty
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Events
System Log
Trap Destinations
Configuration
Accounting
Performance
Security
192.168.9.202
898p
958a
898q
898r
898s
898t

FIG. 7E

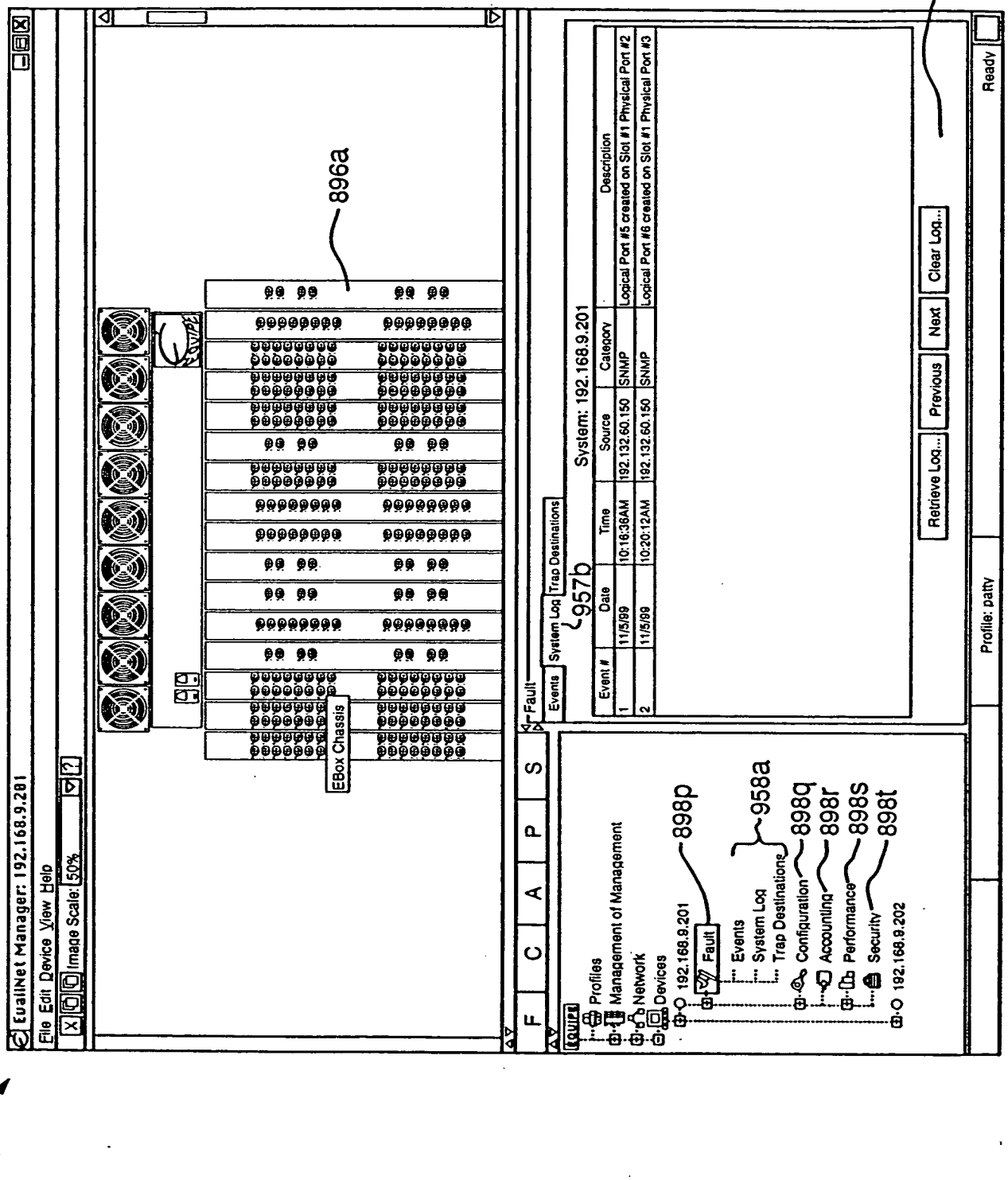

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
EBox Chassis
F C A P S
Fault
Events
System Log
Trap Destinations
957b
System: 192.168.9.201
Event # | Date | Time | Source | Category | Description
1 | 11/5/99 | 10:16:36AM | 192.132.60.150 | SNMP | Logical Port #5 created on Slot #1 Physical Port #2
2 | 11/5/99 | 10:20:12AM | 192.132.60.150 | SNMP | Logical Port #6 created on Slot #1 Physical Port #3
Retrieve Log...
Previous
Next
Clear Log...
897
Ready
Profile: pathy
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Events
System Log
Trap Destinations
Configuration
Accounting
Performance
Security
192.168.9.202
898p
958a
898q
898r
898s
898t

FIG. 7F

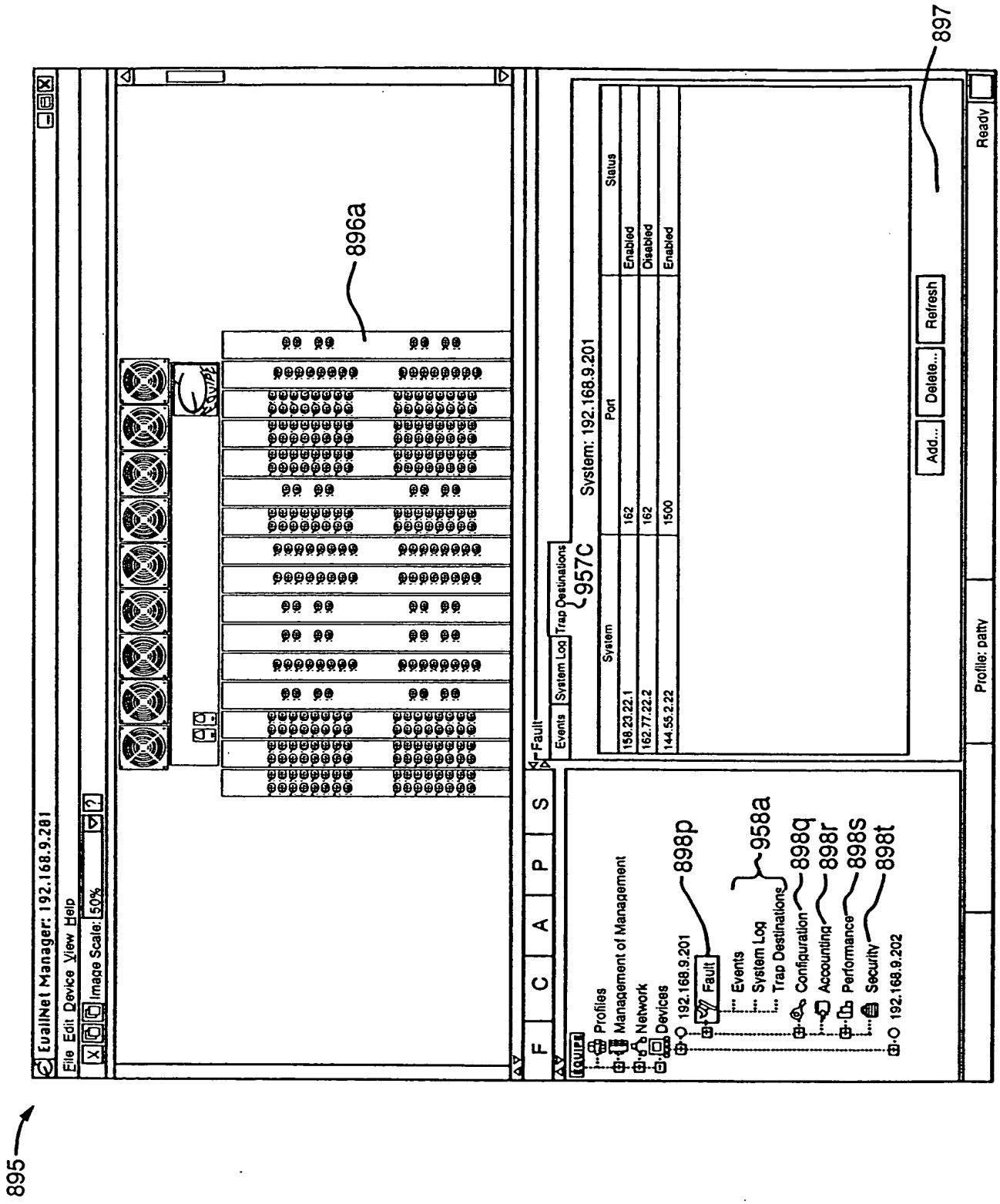

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Fault
Events
System Log
Trap Destinations
957C
System: 192.168.9.201
System
Port
Status
158.23.22.1
162
Enabled
162.77.22.2
162
Disabled
144.55.2.22
1500
Enabled
Add...
Delete...
Refresh
897
Ready
Profile: patty
EQUIPT
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Events
System Log
Trap Destinations
Configuration
Accounting
Performance
Security
192.168.9.202
898p
958a
898q
898r
898s
898t

FIG. 7G

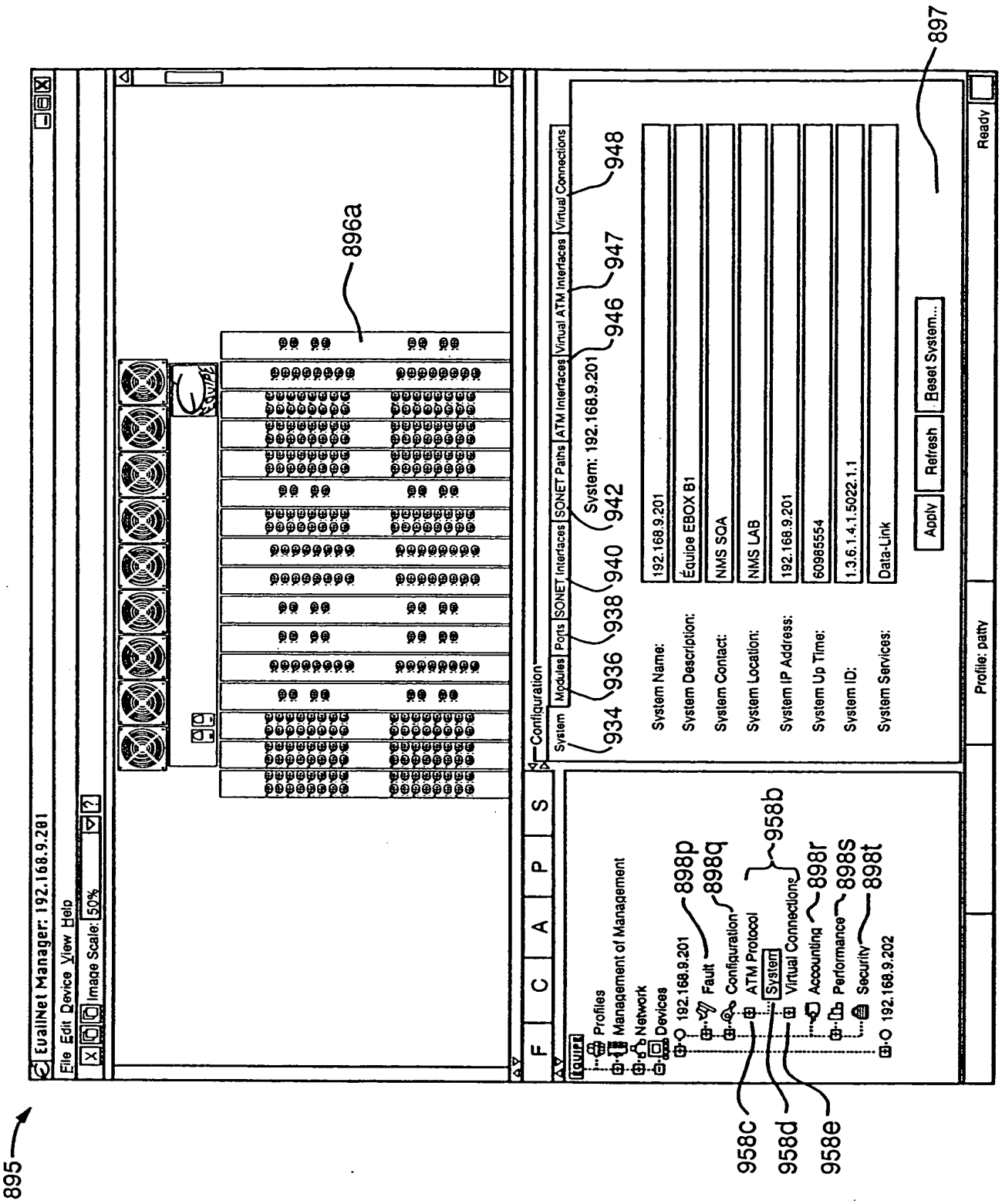

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
934
936
938
940
942
946
947
948
System: 192.168.9.201
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
192.168.9.201
Équipe EBOX B1
NMS SQA
NMS LAB
192.168.9.201
60985554
1.3.6.1.4.1.5022.1.1
Data-Link
Apply
Refresh
Reset System...
897
Profile: patty
Ready
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
System
Virtual Connections
Accounting
Performance
Security
192.168.9.202
898p
898q
958b
898r
898s
898t
958c
958d
958e

FIG. 7H

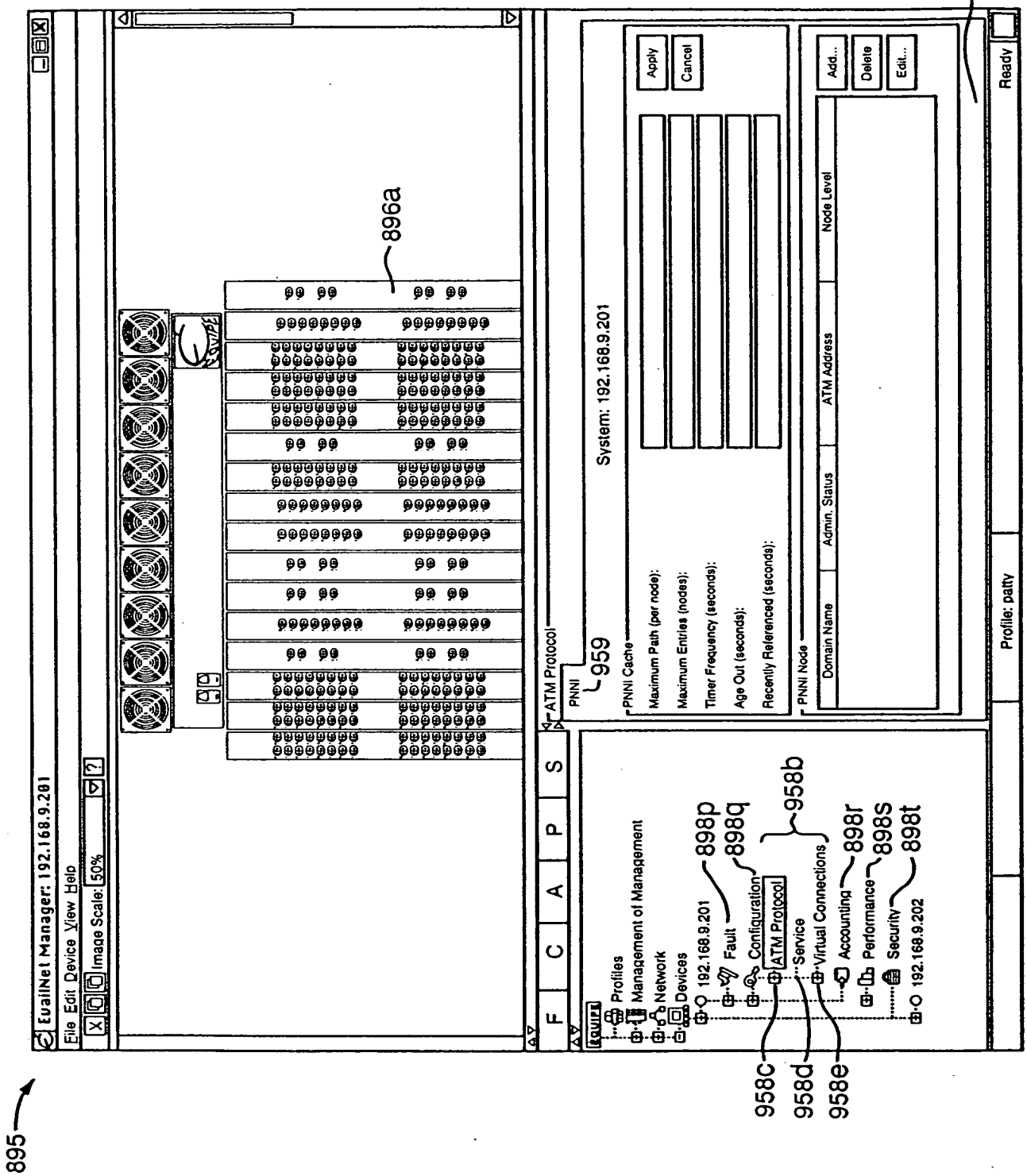

895
EvailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Equinox
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
Service
Virtual Connections
Accounting
Performance
Security
192.168.9.202
898p
898q
958b
898r
898s
898t
958c
958d
958e
ATM Protocol
PNNI
959
System: 192.168.9.201
PNNI Cache
Maximum Path (per node):
Maximum Entries (nodes):
Timer Frequency (seconds):
Age Out (seconds):
Recently Referenced (seconds):
Apply
Cancel
PNNI Node
Domain Name
Admin. Status
ATM Address
Node Level
Add...
Delete
Edit...
897
Ready
Profile: patty

FIG. 71

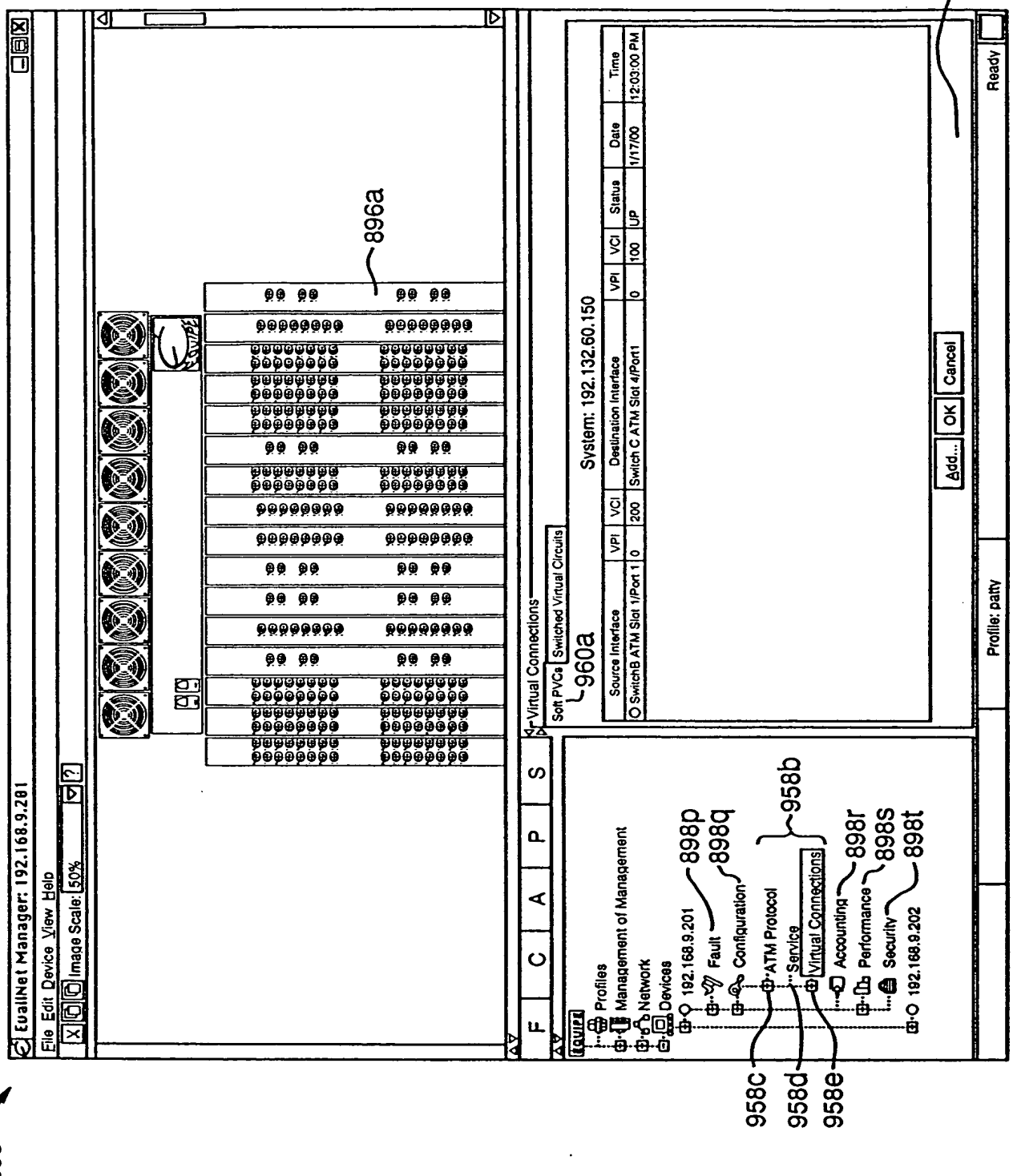

895
EvaliNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
Service
Virtual Connections
Accounting
Performance
Security
192.168.9.202
898p
898q
958b
898r
898s
898t
958c
958d
958e
Virtual Connections
Soft PVCs
Switched Virtual Circuits
960a
System: 192.132.60.150
Source Interface
VPI
VCI
Destination Interface
VPI
VCI
Status
Date
Time
SwitchB ATM Slot 1/Port 1
0
200
Switch C ATM Slot 4/Port1
0
100
UP
1/17/00
12:03:00 PM
Add...
OK
Cancel
897
Ready
Profile: patty

FIG. 7J

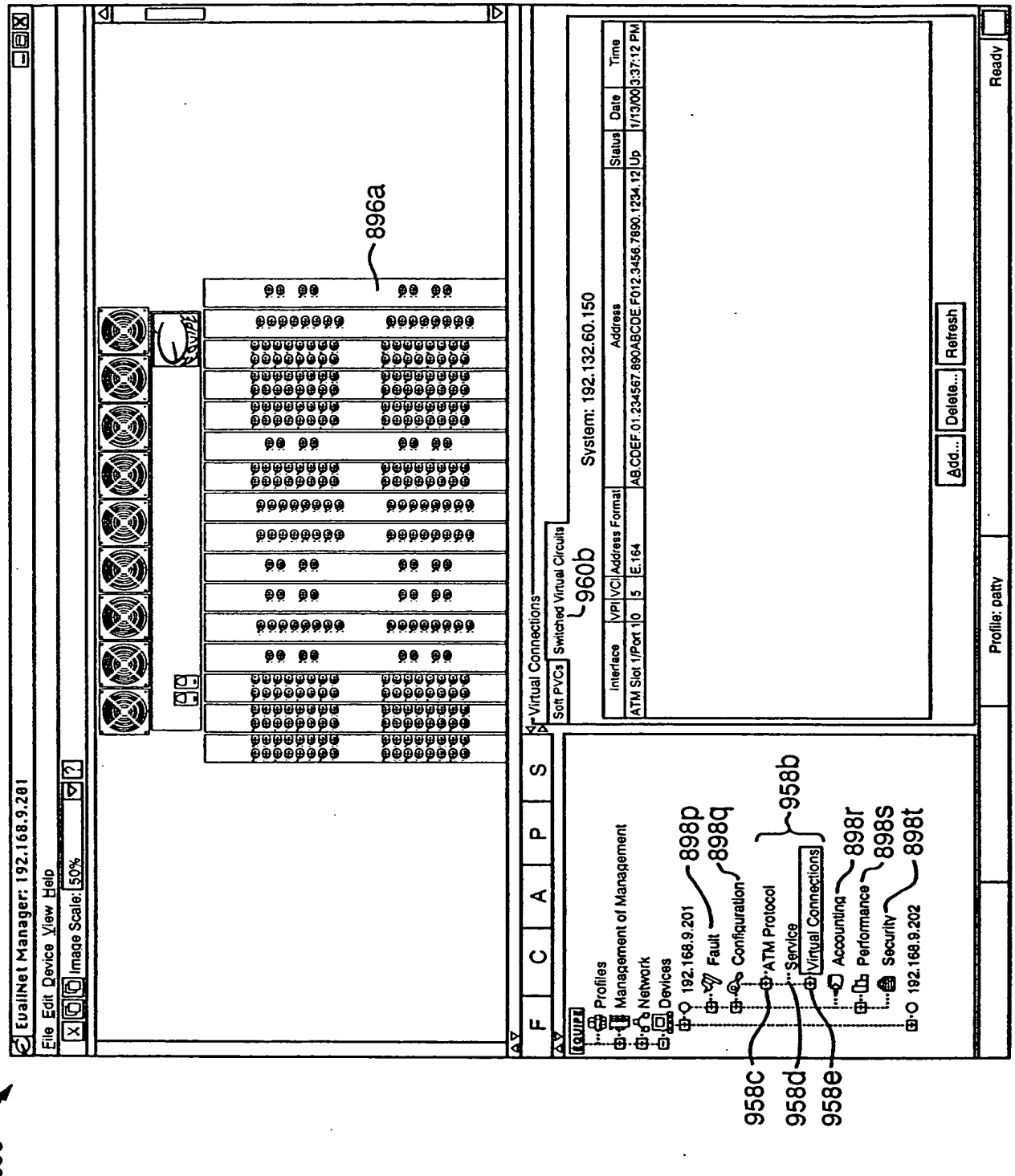

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
ATM Protocol
Service
Virtual Connections
Accounting
Performance
Security
192.168.9.202
Virtual Connections
Soft PVCs
Switched Virtual Circuits
System: 192.132.60.150
Interface
VPI
VCI
Address Format
Address
Status
Date
Time
ATM Slot 1/Port 1
0
5
E.164
AB.CDEF.01.234567.890ABCDE.F012.3456.7890.1234.12
Up
1/13/00
3:37:12 PM
Add...
Delete...
Refresh
Profile: patty
Ready
895
896a
960b
898p
898q
958b
898r
898s
898t
958c
958d
958e

FIG. 7K

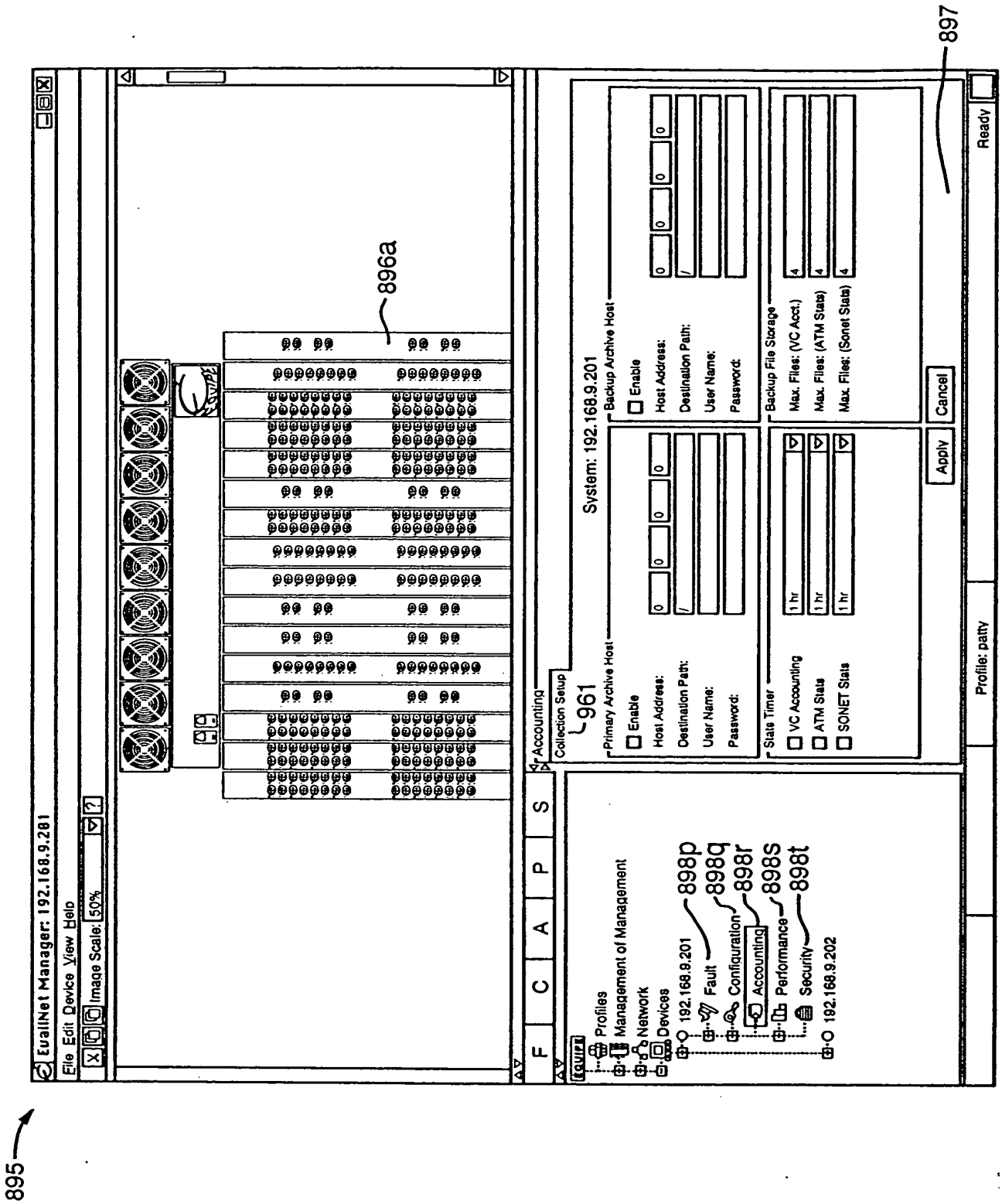

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
192.168.9.202
898p
898q
898r
898s
898t
Accounting
Collection Setup
961
System: 192.168.9.201
Primary Archive Host
Enable
Host Address:
Destination Path:
User Name:
Password:
Backup Archive Host
Enable
Host Address:
Destination Path:
User Name:
Password:
State Timer
VC Accounting
ATM Stats
SONET Stats
1 hr
Backup File Storage
Max. Files: (VC Acct.)
Max. Files: (ATM Stats)
Max. Files: (Sonet Stats)
Apply
Cancel
897
Ready
Profile: patty

FIG. 7L

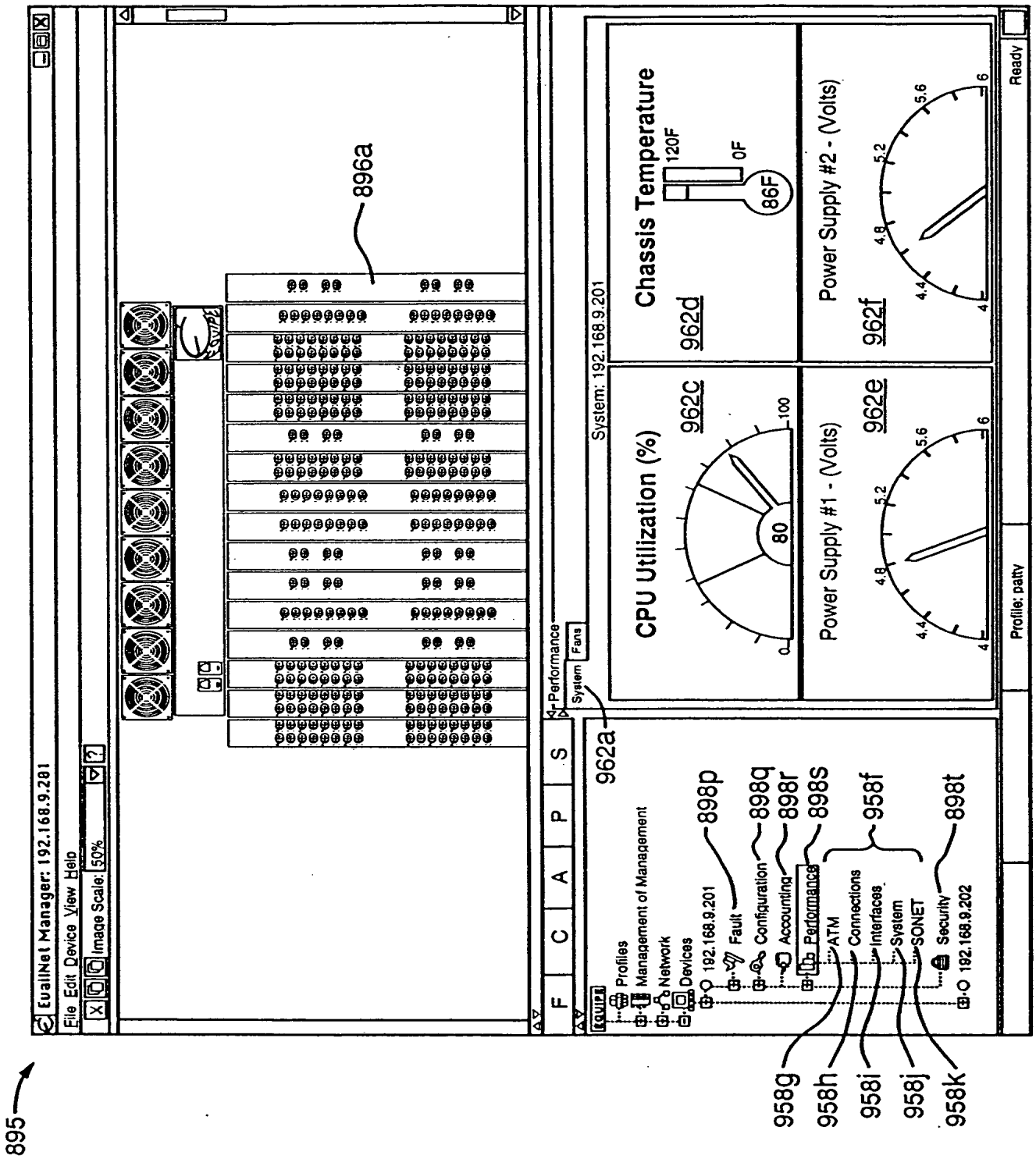

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
962a
Performance
System
Fans
System: 192.168.9.201
CPU Utilization (%)
962c
Chassis Temperature
120F
0F
86F
962d
Power Supply #1 - (Volts)
962e
Power Supply #2 - (Volts)
962f
Profile: patty
Ready
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k

FIG. 7M

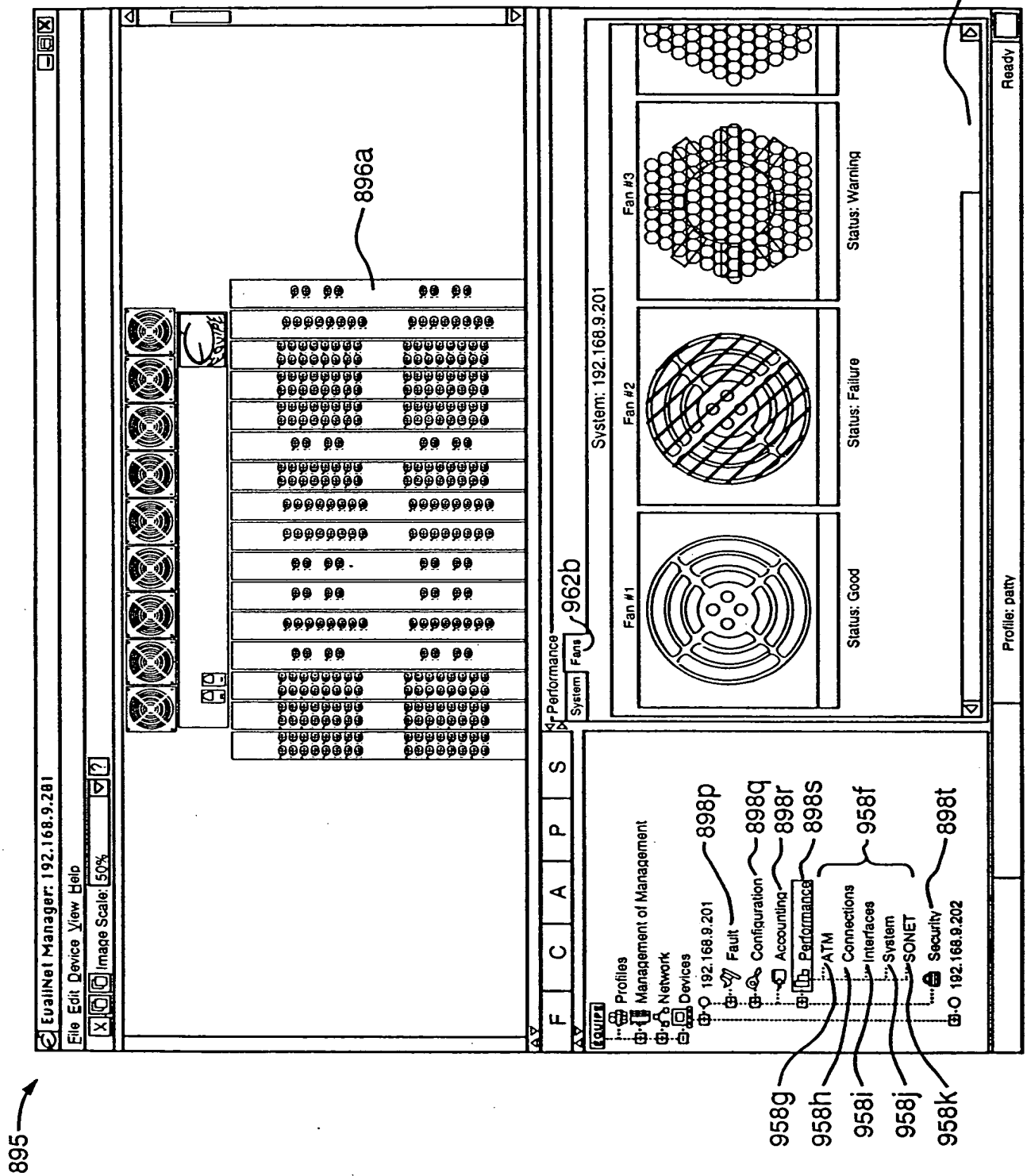

EvalNet Manager: 192.168.9.281
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Performance
System
Fans
962b
System: 192.168.9.201
Fan #1
Fan #2
Fan #3
Status: Good
Status: Failure
Status: Warning
897
Ready
Profile: patty
895

FIG. 7N

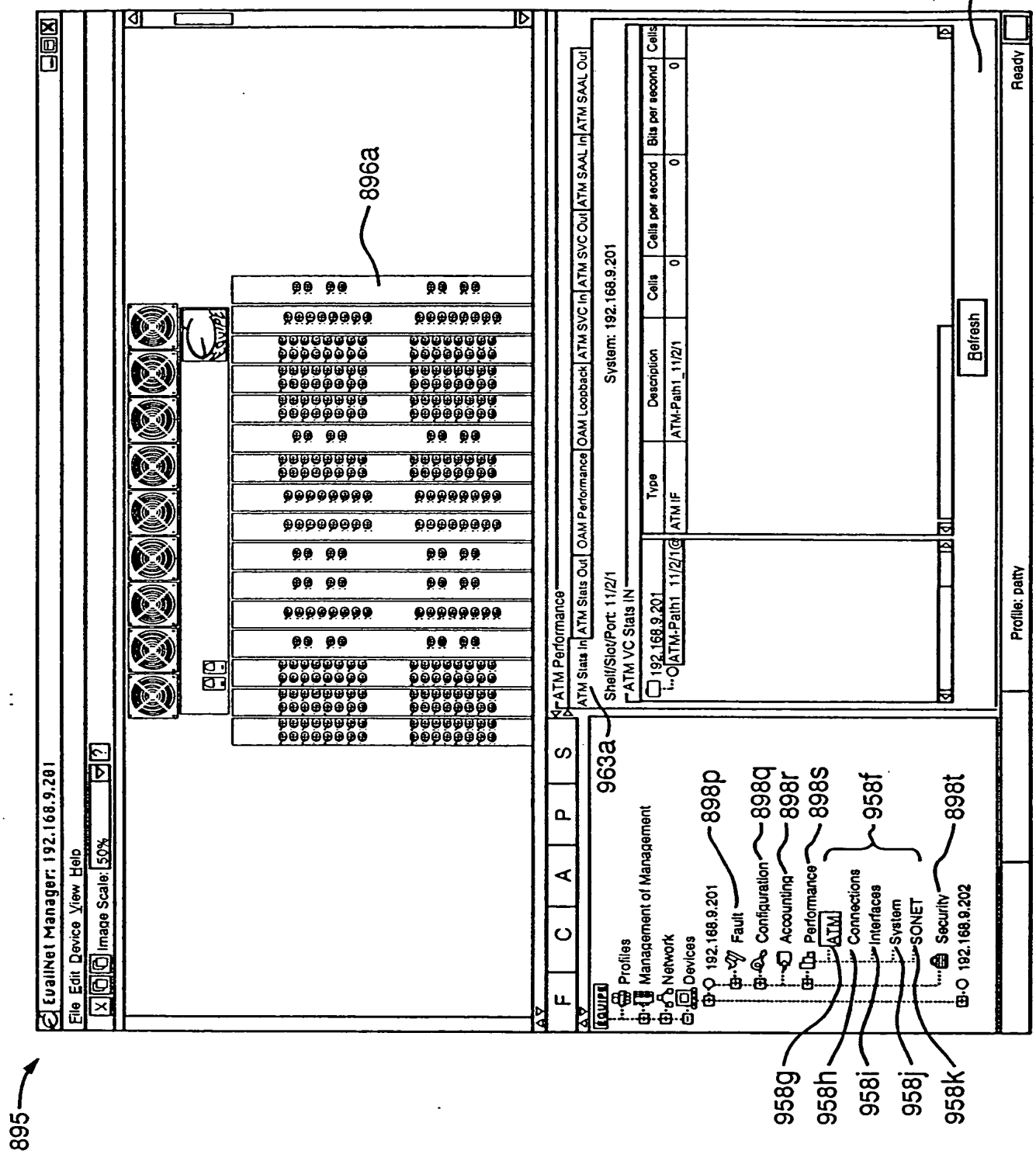

895
897
896a
963a
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
F C A P S
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1_11/2/1
Refresh
Ready
Profile: patty
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k

FIG. 70

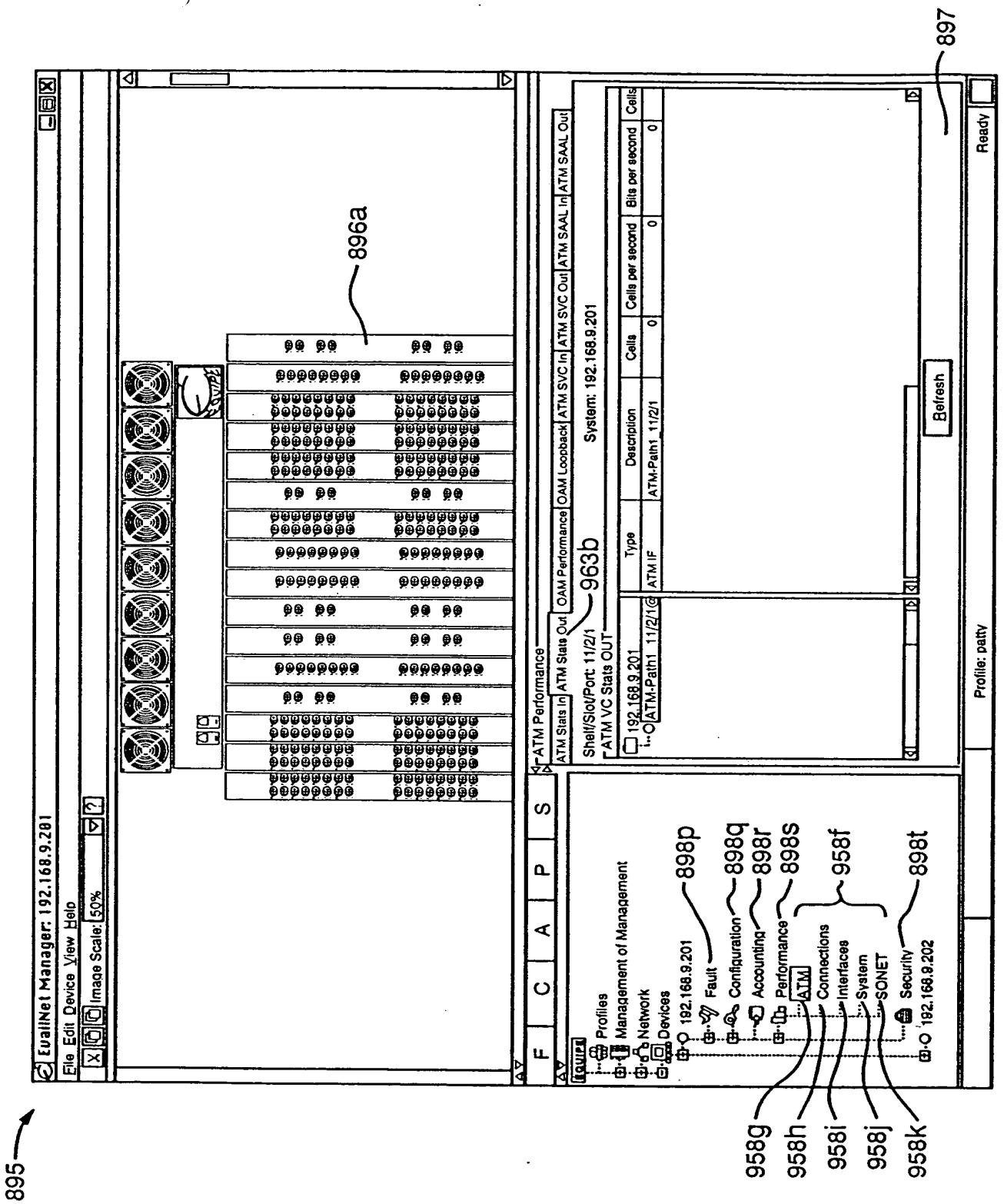

895
EvaliNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963b
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats OUT
192.168.9.201
ATM-Path1 11/2/1
Type
Description
Cells
Cells per second
Bits per second
Cells
ATM IF
ATM-Path1 11/2/1
0
0
0
Refresh
897
Ready
Profile: patty

FIG. 7P

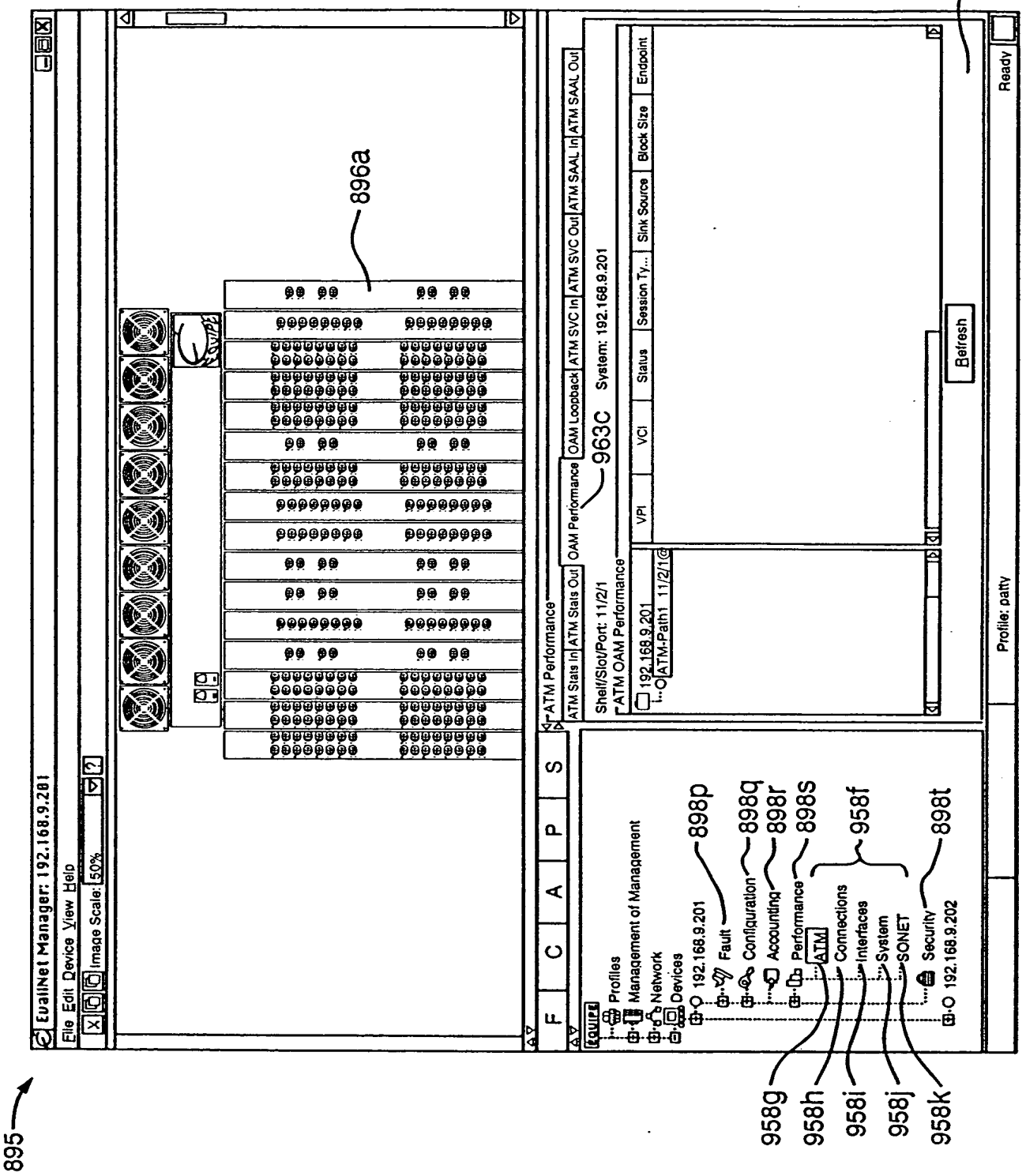

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
897
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963C
System: 192.168.9.201
Shelf/Slot/Port: 11/2/1
ATM OAM Performance
192.168.9.201
ATM-Path1 11/2/1@
VPI
VCI
Status
Session Ty...
Sink Source
Block Size
Endpoint
Refresh
Ready
Profile: patty
F C A P S
Equipe
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k

FIG. 7Q

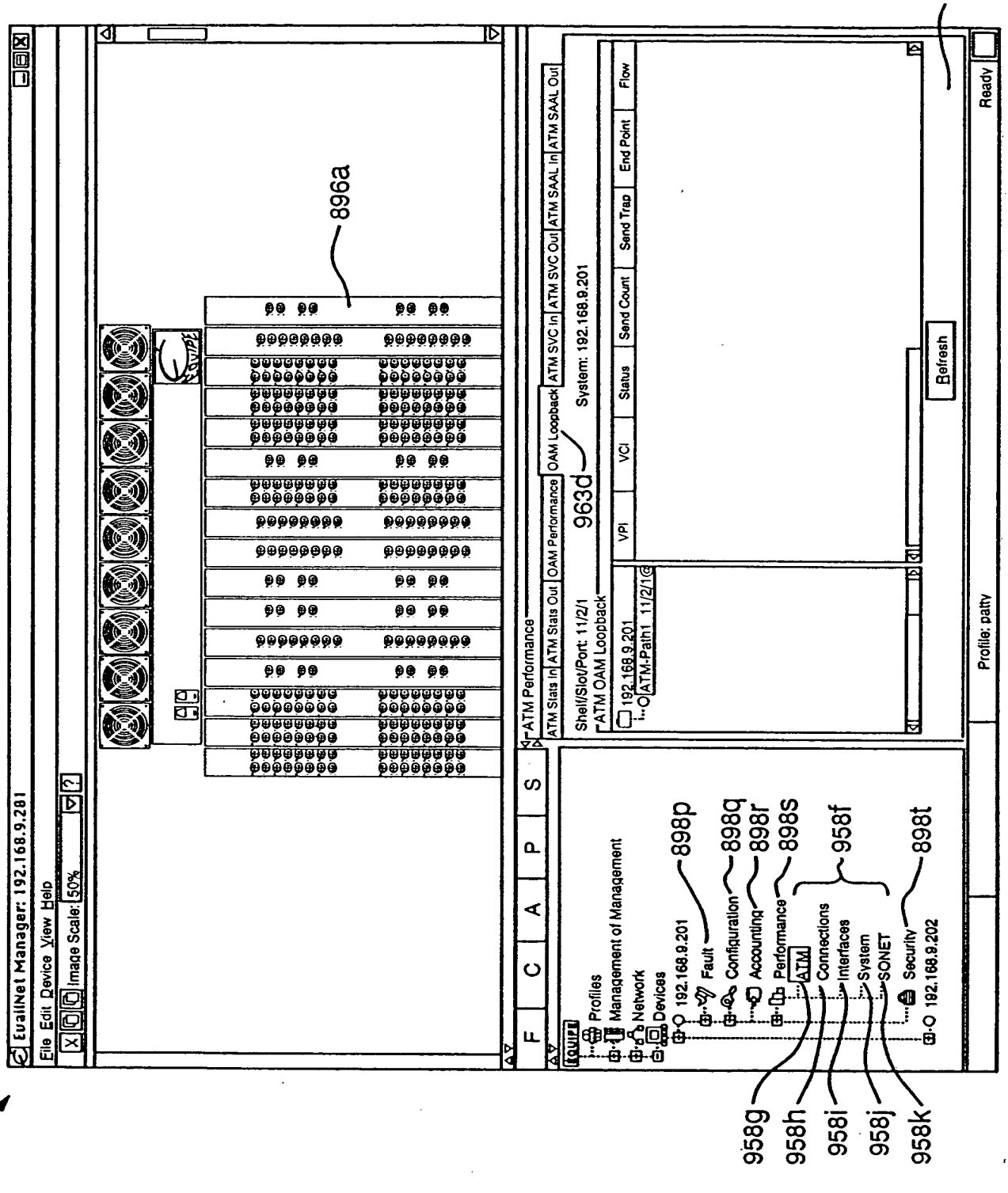

EvalNet Manager: 192.168.9.281
File Edit Device View Help
Image Scale: 50%
896a
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
System: 192.168.9.201
963d
Shelf/Slot/Port: 11/2/1
ATM OAM Loopback
192.168.9.201
ATM-Path1 11/2/1
VPI
VCI
Status
Send Count
Send Trap
End Point
Flow
Refresh
897
Ready
Profile: patty
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
895

FIG. 7R

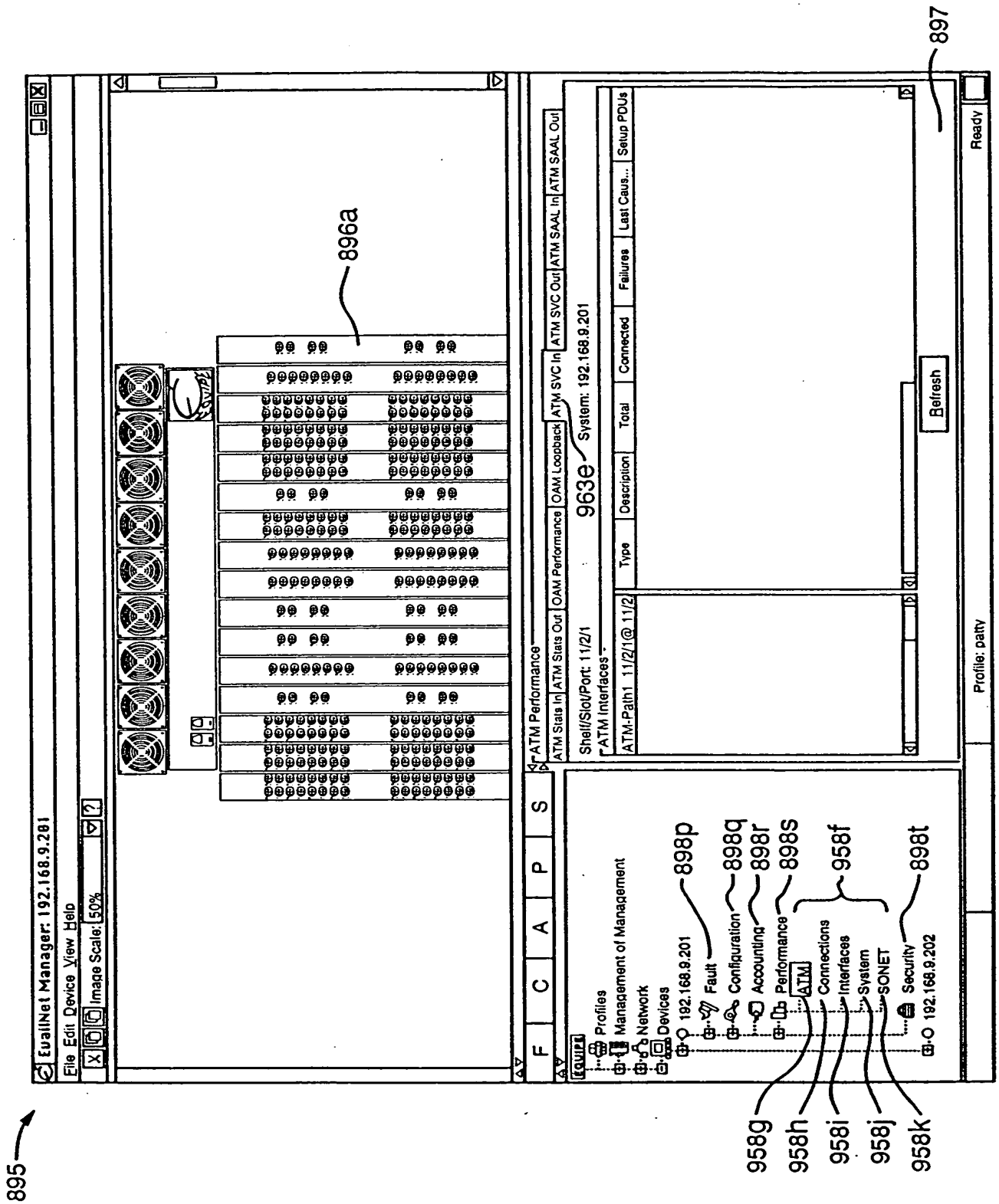

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
Shelf/Slot/Port: 11/2/1
963e
System: 192.168.9.201
ATM Interfaces
ATM-Path1 11/2/1@ 11/2
Type
Description
Total
Connected
Failures
Last Caus...
Setup PDUs
Refresh
897
Explore
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Ready
Profile: patty
895

FIG. 7S

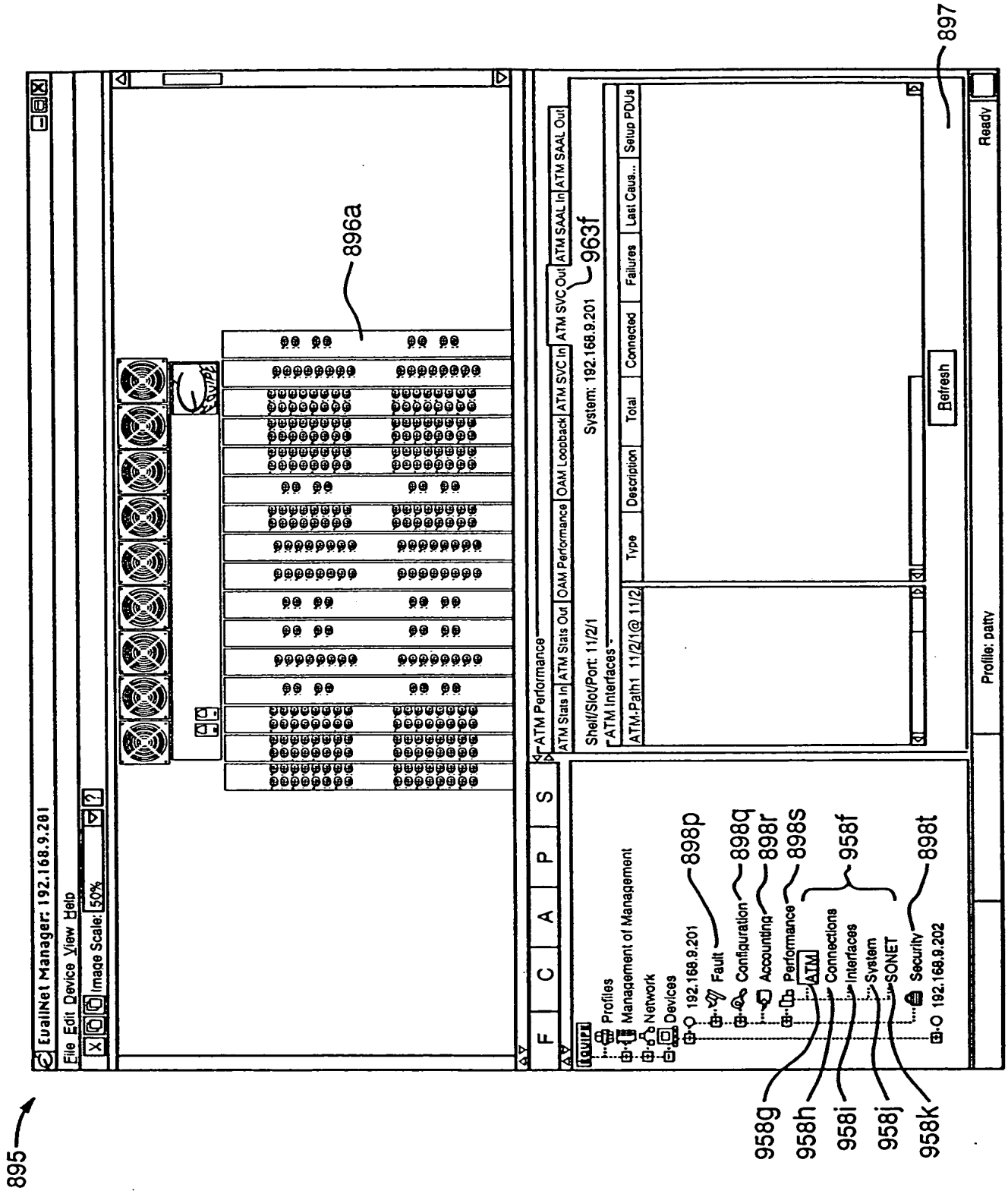

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963f
System: 192.168.9.201
Shelf/Slot/Port: 11/2/1
ATM Interfaces
ATM-Path1 11/2/1@ 11/2
Type
Description
Total
Connected
Failures
Last Caus...
Setup PDUs
Refresh
897
Ready
Profile: patty
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k

FIG. 7T

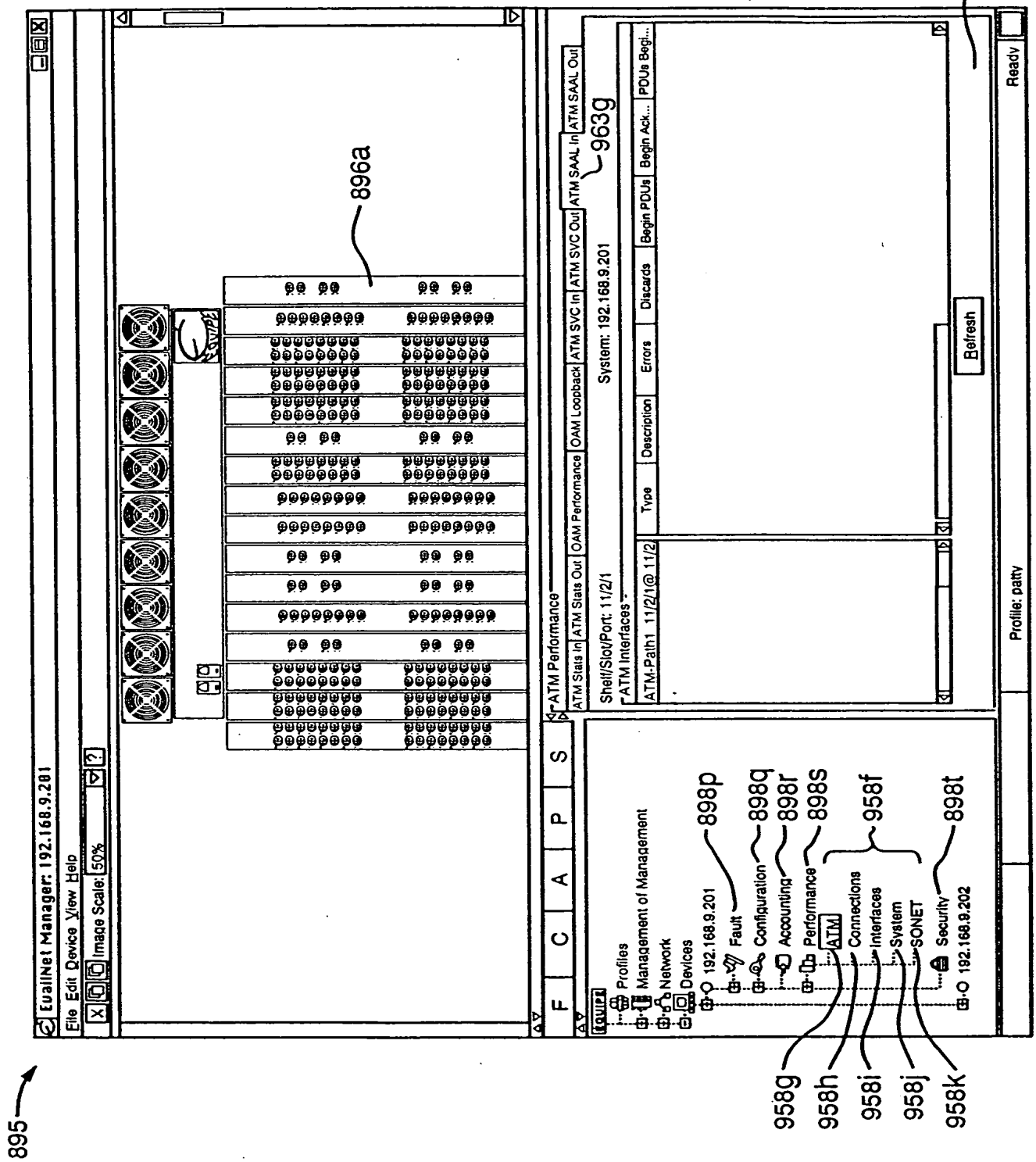

EualNet Manager: 192.168.9.281
File Edit Device View Help
Image Scale: 50%
896a
963g
897
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
System: 192.168.9.201
Shelf/Slot/Port: 11/2/1
ATM Interfaces
ATM.Path1 11/2/1@ 11/2
Type
Description
Errors
Discards
Begin PDUs
Begin Ack...
PDUs Begi...
Refresh
Ready
Profile: patty
F C A P S
Equipt
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
895

FIG. 7U

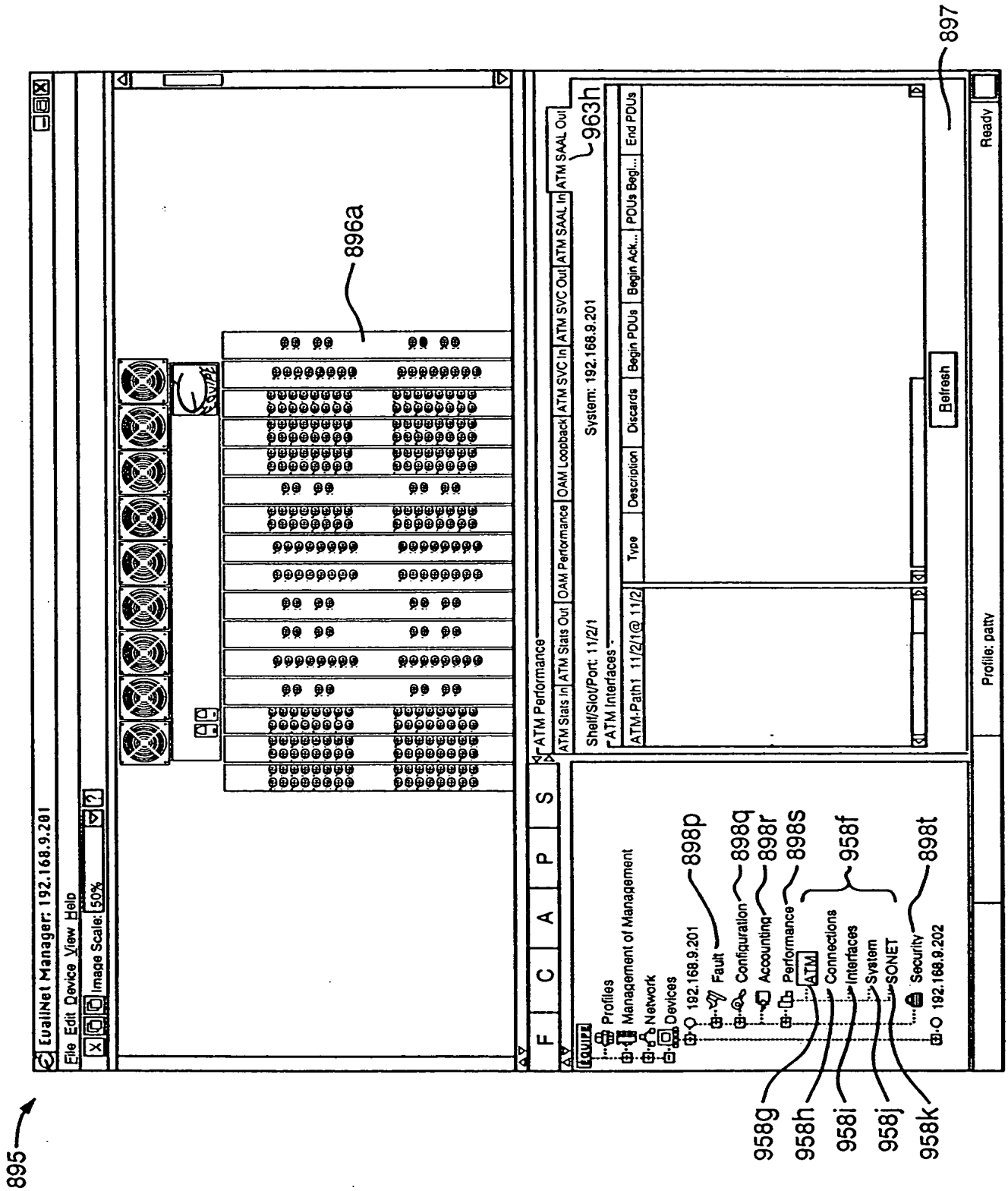

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Equip
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.8.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
895
ATM Performance
ATM Stats In
ATM Stats Out
OAM Performance
OAM Loopback
ATM SVC In
ATM SVC Out
ATM SAAL In
ATM SAAL Out
963h
System: 192.168.9.201
Shelf/Slot/Port: 11/2/1
ATM Interfaces
ATM-Path1 11/2/1@ 11/2
Type
Description
Discards
Begin PDUs
Begin Ack...
PDUs Begi...
End PDUs
Refresh
897
Ready
Profile: patty

FIG. 7V

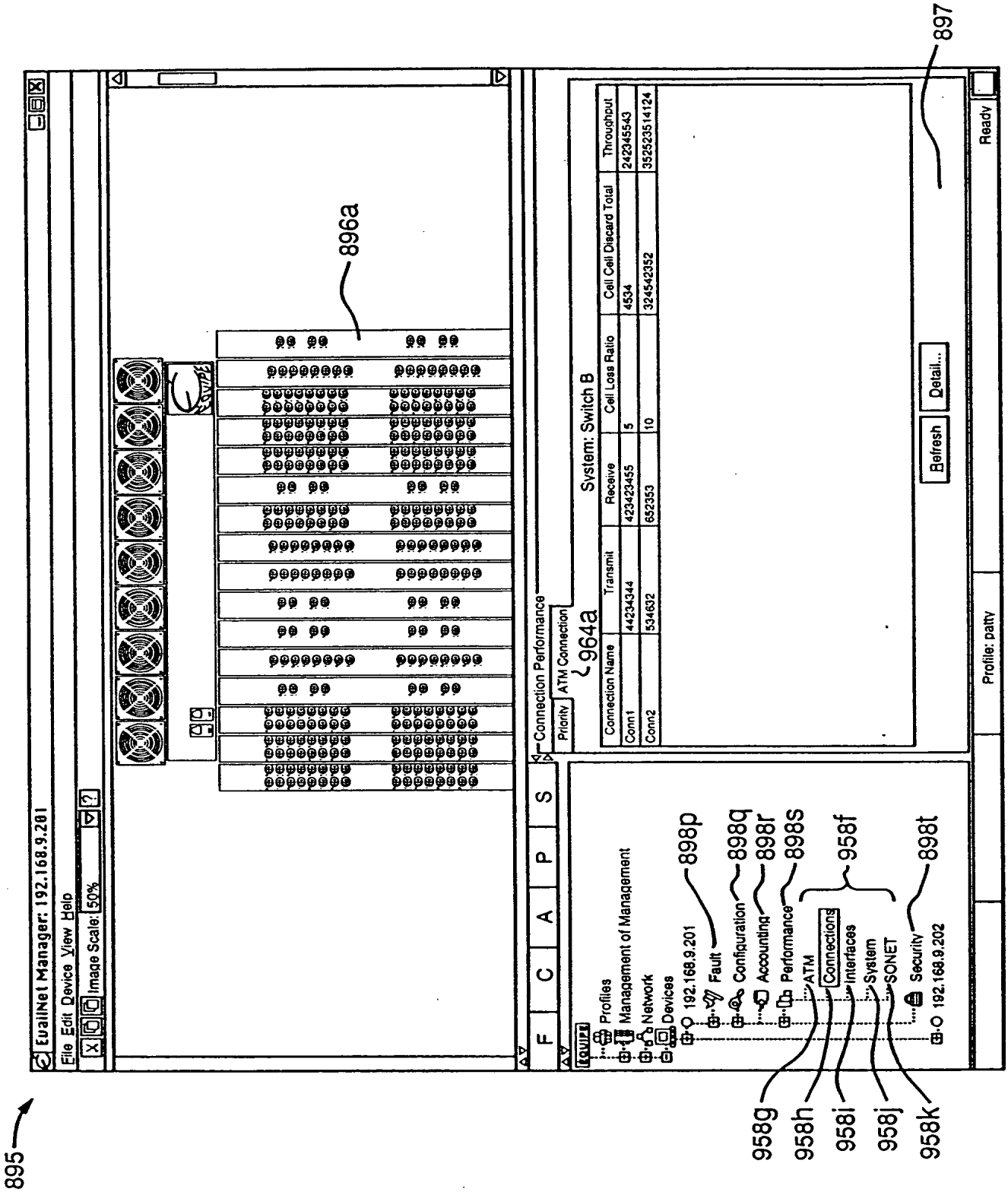

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
SWIPE
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
Connection Performance
Priority
ATM Connection
964a
System: Switch B
Connection Name
Transmit
Receive
Cell Loss Ratio
Cell Cell Discard Total
Throughput
Conn1
44234344
423423455
5
4534
242345543
Conn2
534632
652353
10
324542352
352523514124
Refresh
Detail...
897
Profile: patty
Ready

FIG. 7W

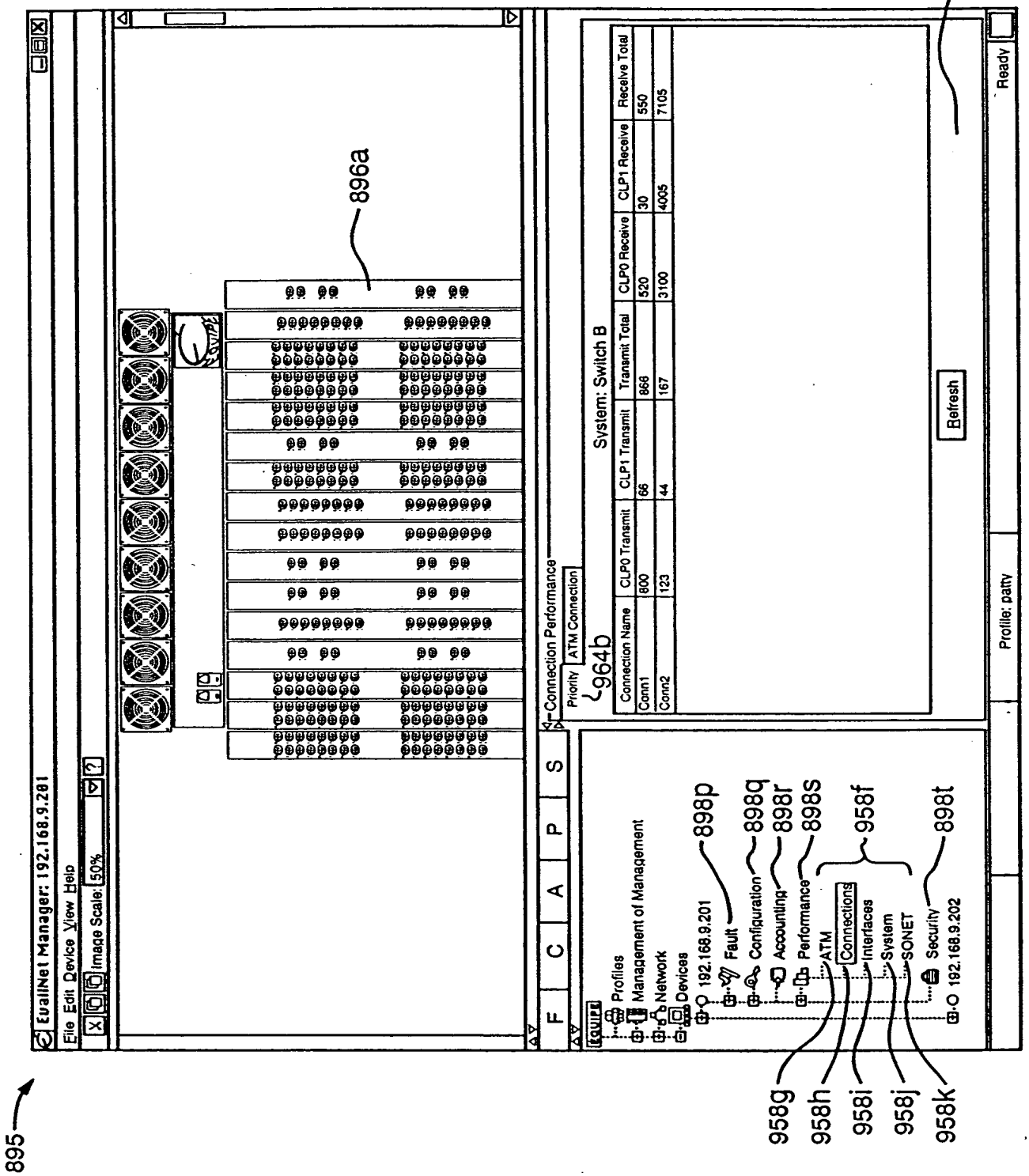

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
897
Connection Performance
Priority
ATM Connection
964b
System: Switch B
Connection Name
CLP0 Transmit
CLP1 Transmit
Transmit Total
CLP0 Receive
CLP1 Receive
Receive Total
Conn1
800
66
866
520
30
550
Conn2
123
44
167
3100
4005
7105
Refresh
Ready
Profile: patty
F C A P S
Equipt
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k

FIG. 7X

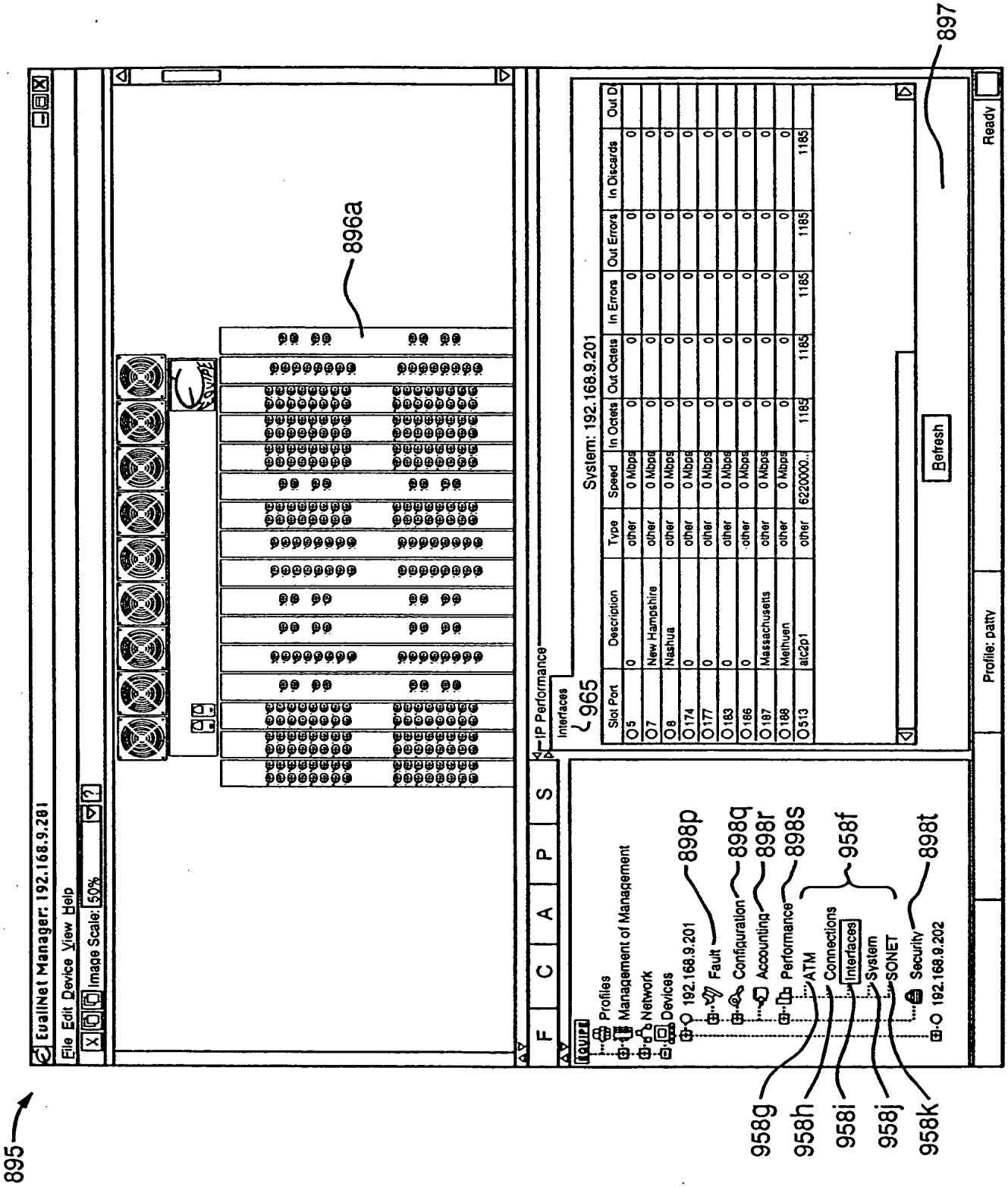

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
IP Performance
Interfaces
System: 192.168.9.201
Slot Port
Description
Type
Speed
In Octets
Out Octets
In Errors
Out Errors
In Discards
Out D
Refresh
897
Ready
Profile: patty
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k

FIG. 7Y

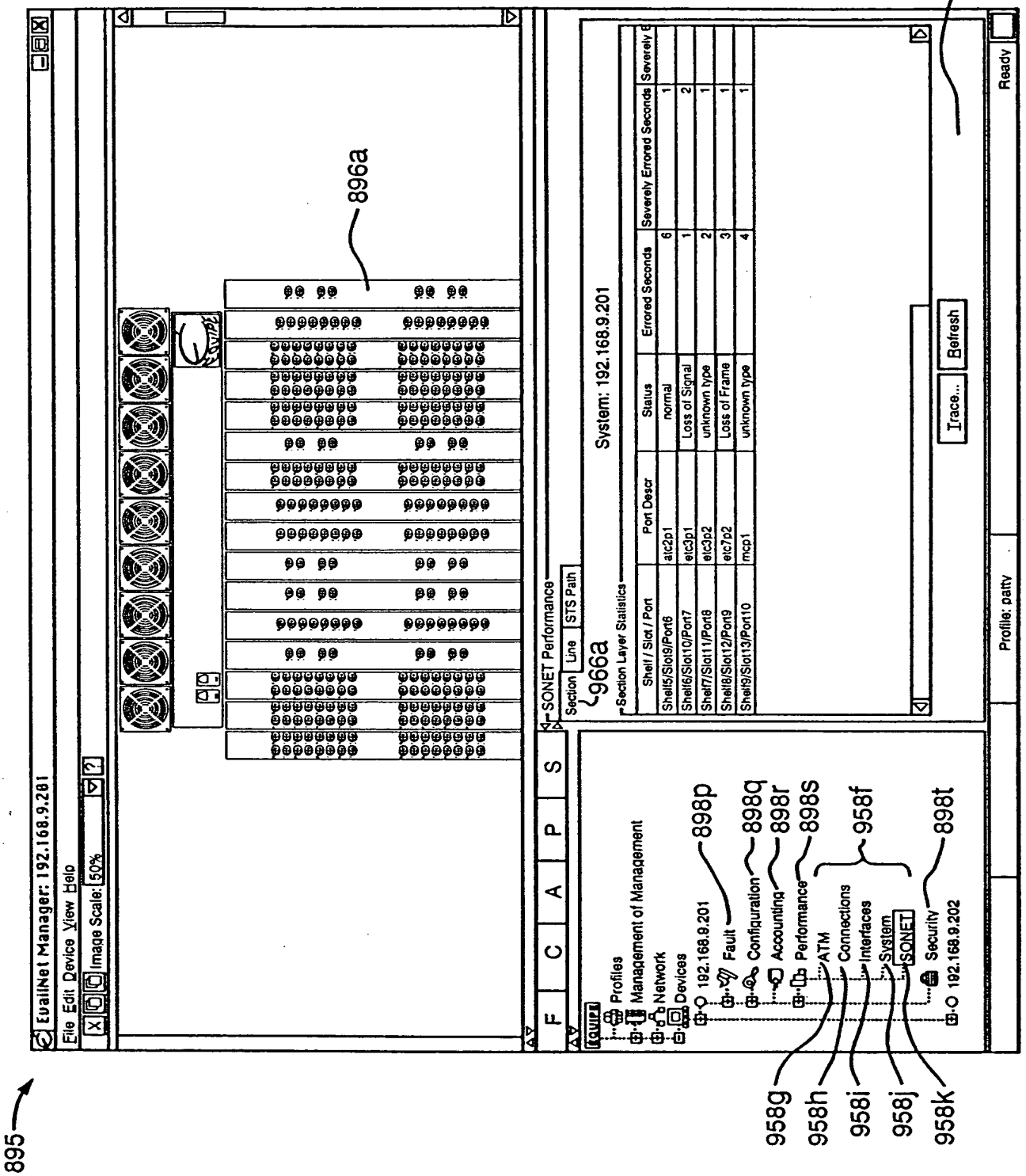

895
EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
SONET Performance
Section Line STS Path
966a
System: 192.168.9.201
Section Layer Statistics
Shelf / Slot / Port
Port Descr
Status
Errored Seconds
Severely Errored Seconds
Severely E
Shelf5/Slot9/Port6 atc2p1 normal 6 1
Shelf6/Slot10/Port7 etc3p1 Loss of Signal 1 2
Shelf7/Slot11/Port8 etc3p2 unknown type 2 1
Shelf8/Slot12/Port9 etc7p2 Loss of Frame 3 1
Shelf9/Slot13/Port10 mcp1 unknown type 4 1
Trace...
Refresh
897
Ready
Profile: patty

FIG. 8A

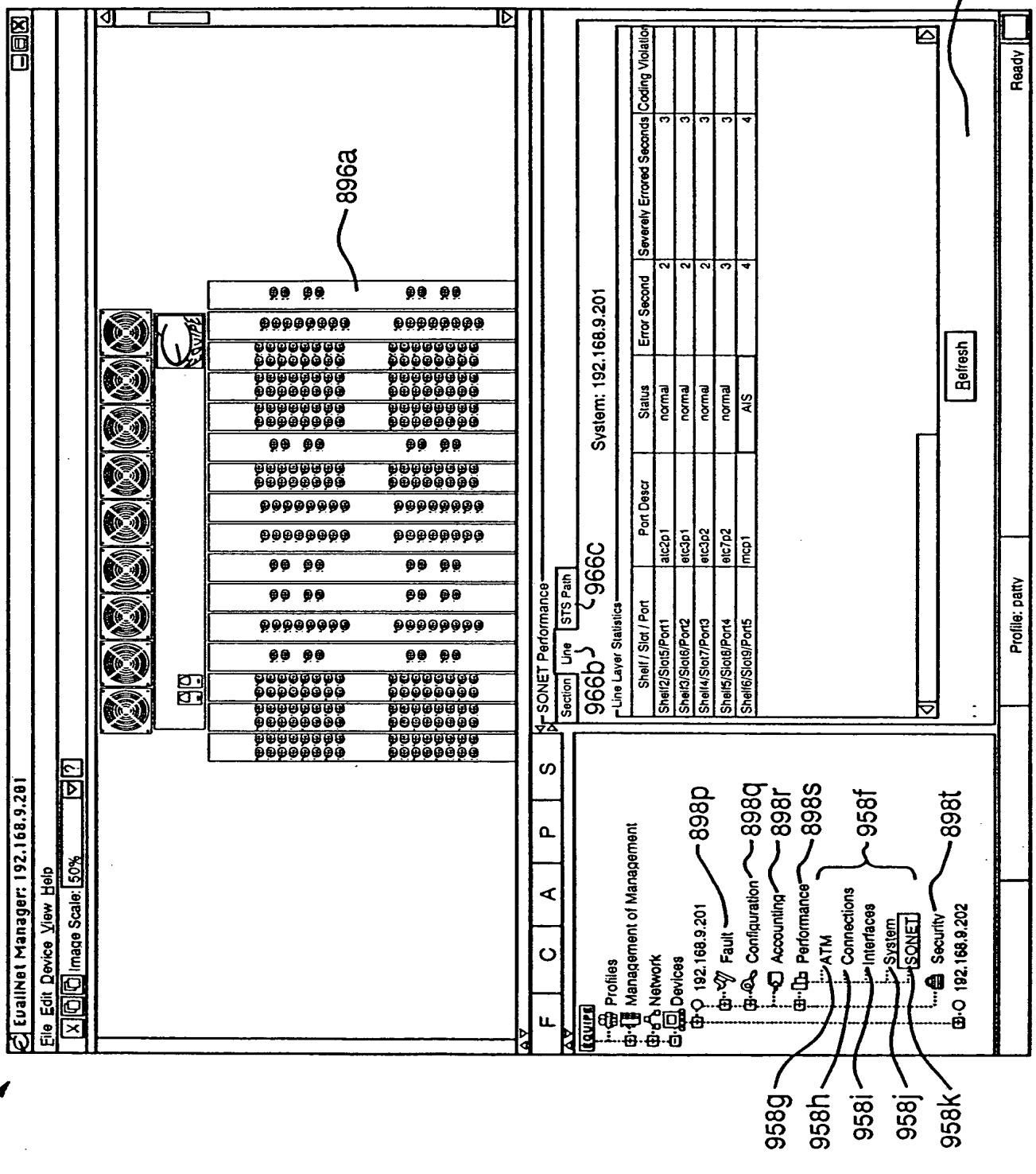

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k
895
SONET Performance
Section
Line
STS Path
966b
966c
System: 192.168.9.201
Line Layer Statistics
Shelf / Slot / Port
Port Descr
Status
Error Second
Severely Errored Seconds
Coding Violation
Shelf2/Slot5/Port1
atc2p1
normal
2
3
Shelf3/Slot6/Port2
atc3p1
normal
2
3
Shelf4/Slot7/Port3
atc3p2
normal
2
3
Shelf5/Slot8/Port4
atc7p2
normal
3
3
Shelf6/Slot9/Port5
mcp1
AIS
4
4
Refresh
897
Ready
Profile: patty

FIG. 8B

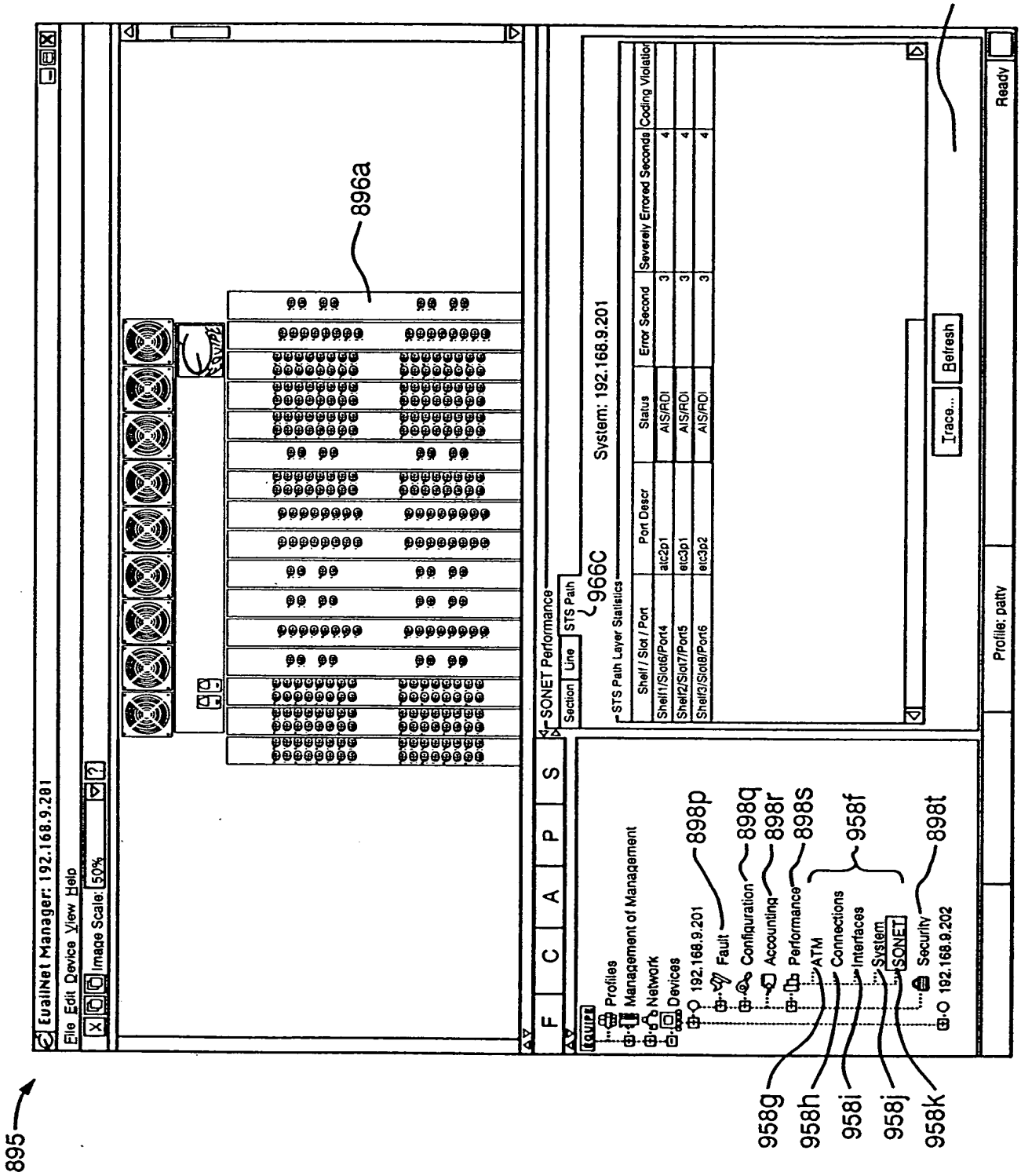

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
SONET Performance
Section Line STS Path
System: 192.168.9.201
STS Path Layer Statistics
Shelf / Slot / Port
Port Descr
Status
Error Second
Severely Errored Seconds
Coding Violation
Shelf1/Slot6/Port4
alc2p1
AIS/RDI
Shelf2/Slot7/Port5
elc3p1
AIS/RDI
Shelf3/Slot8/Port6
elc3p2
AIS/RDI
Trace...
Refresh
Ready
Profile: patty
Router
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
ATM
Connections
Interfaces
System
SONET
Security
192.168.9.202
895
897
966C
898p
898q
898r
898s
958f
898t
958g
958h
958i
958j
958k

FIG. 8C

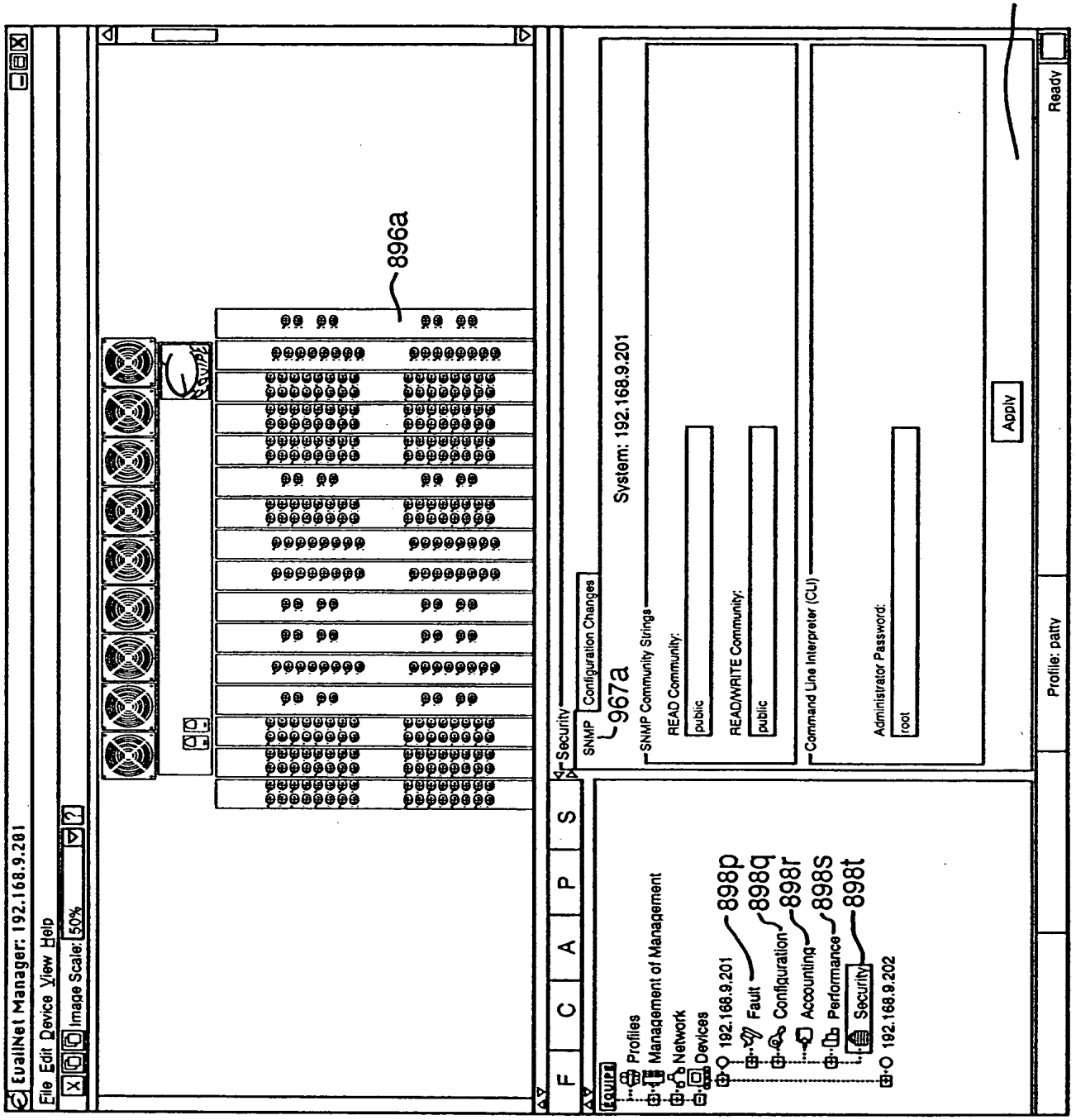
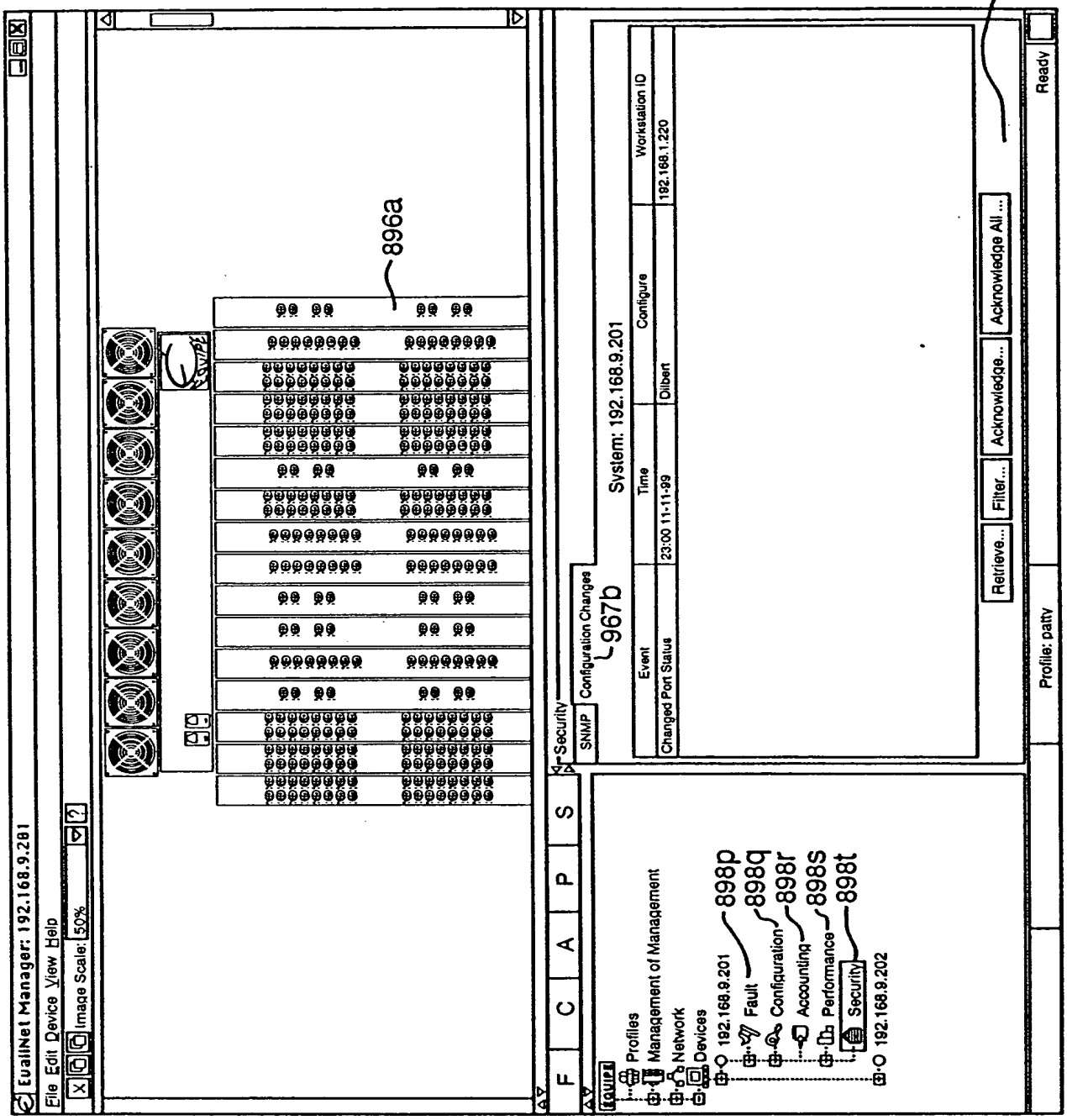

895
EvaliNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
192.168.9.202
898p
898q
898r
898s
898t
Security
SNMP
Configuration Changes
967a
System: 192.168.9.201
SNMP Community Strings
READ Community:
public
READ/WRITE Community:
public
Command Line Interpreter (CLI)
Administrator Password:
root
Apply
897
Ready
Profile: patty

FIG. 8D


EualiNet Manager: 192.168.9.281
File Edit Device View Help
Image Scale: 50%
896a
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
192.168.9.202
898p
898q
898r
898s
898t
Equip
Security
SNMP
Configuration Changes
967b
System: 192.168.9.201
Event
Time
Configure
Workstation ID
Changed Port Status
23:00 11-11-99
Dilbert
192.168.1.220
Retrieve...
Filter...
Acknowledge...
Acknowledge All ...
897
Ready
Profile: patty

895

FIG. 8E

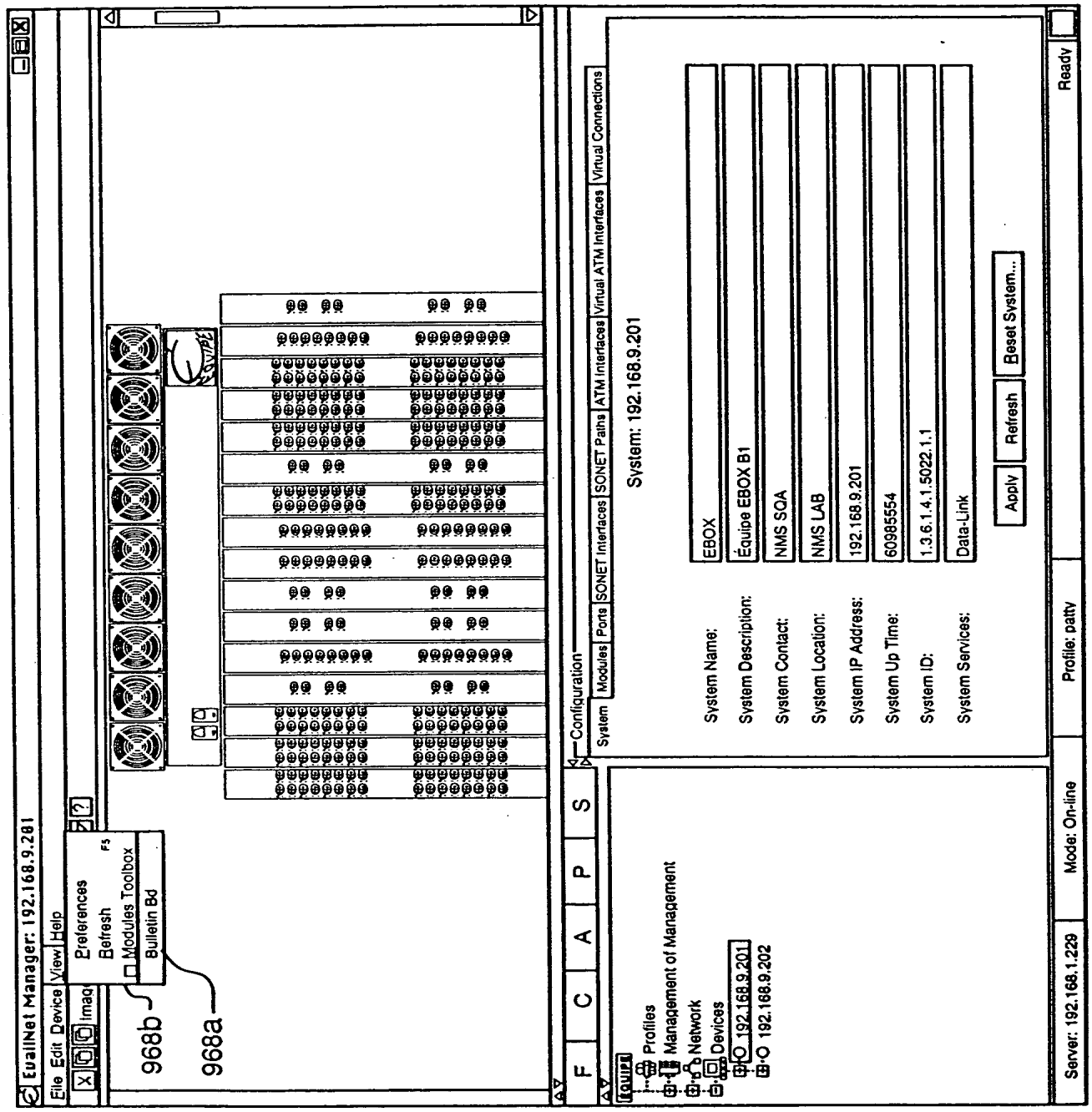

895
EvalNet Manager: 192.168.9.281
File Edit Device View Help
Preferences
Refresh F5
Modules Toolbox
Bulletin Bd
968b
968a
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.201
System Up Time: 60985554
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System...
Profiles
Management of Management
Network
Devices
192.168.9.201
192.168.9.202
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 9A

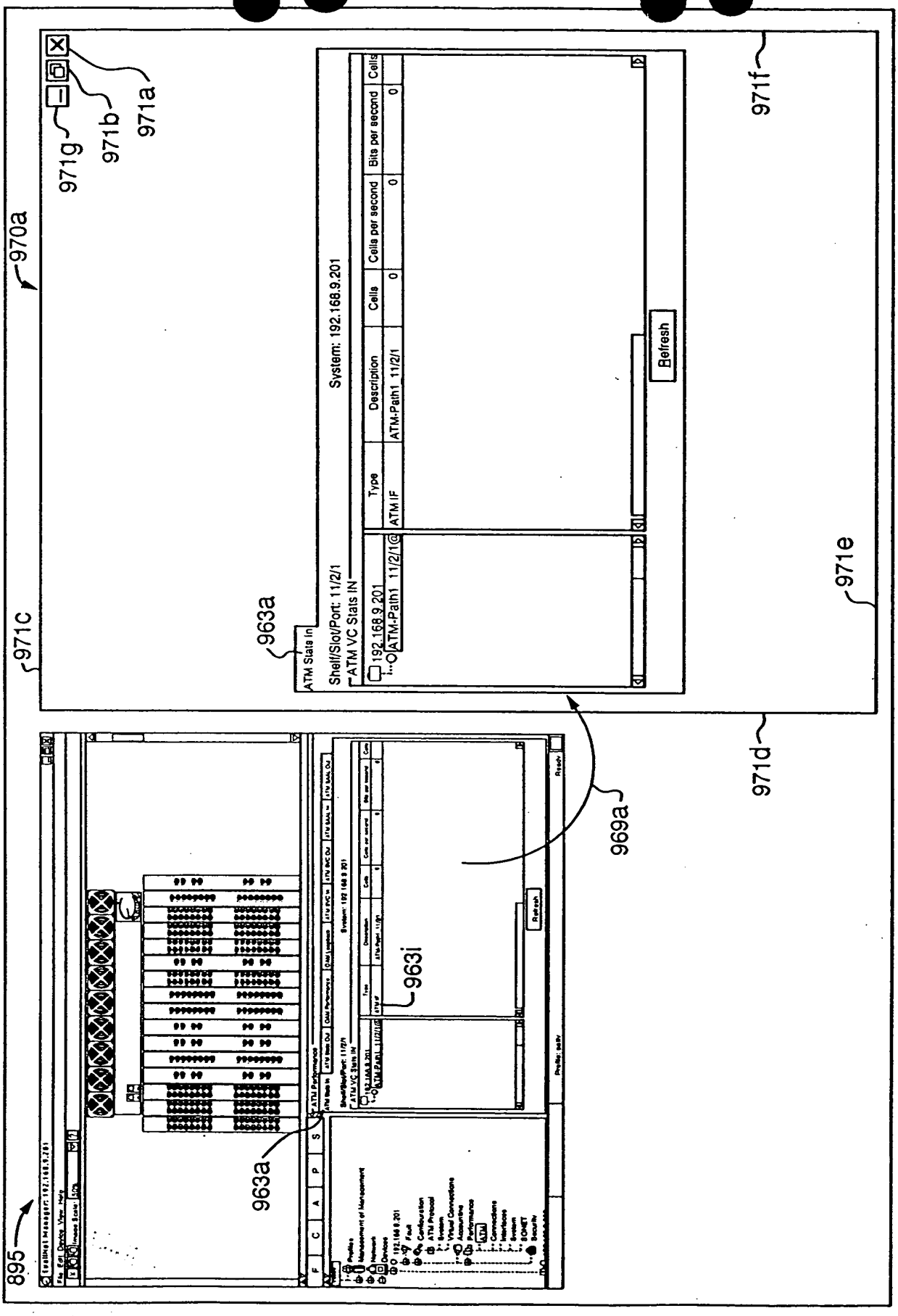

895
963a
963i
969a
971a
971b
971c
971d
971e
971f
971g
970a
963a
ATM Stats In
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
192.168.9.201
ATM-Path1 11/2/1@
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1 11/2/1
Refresh

FIG. 9B

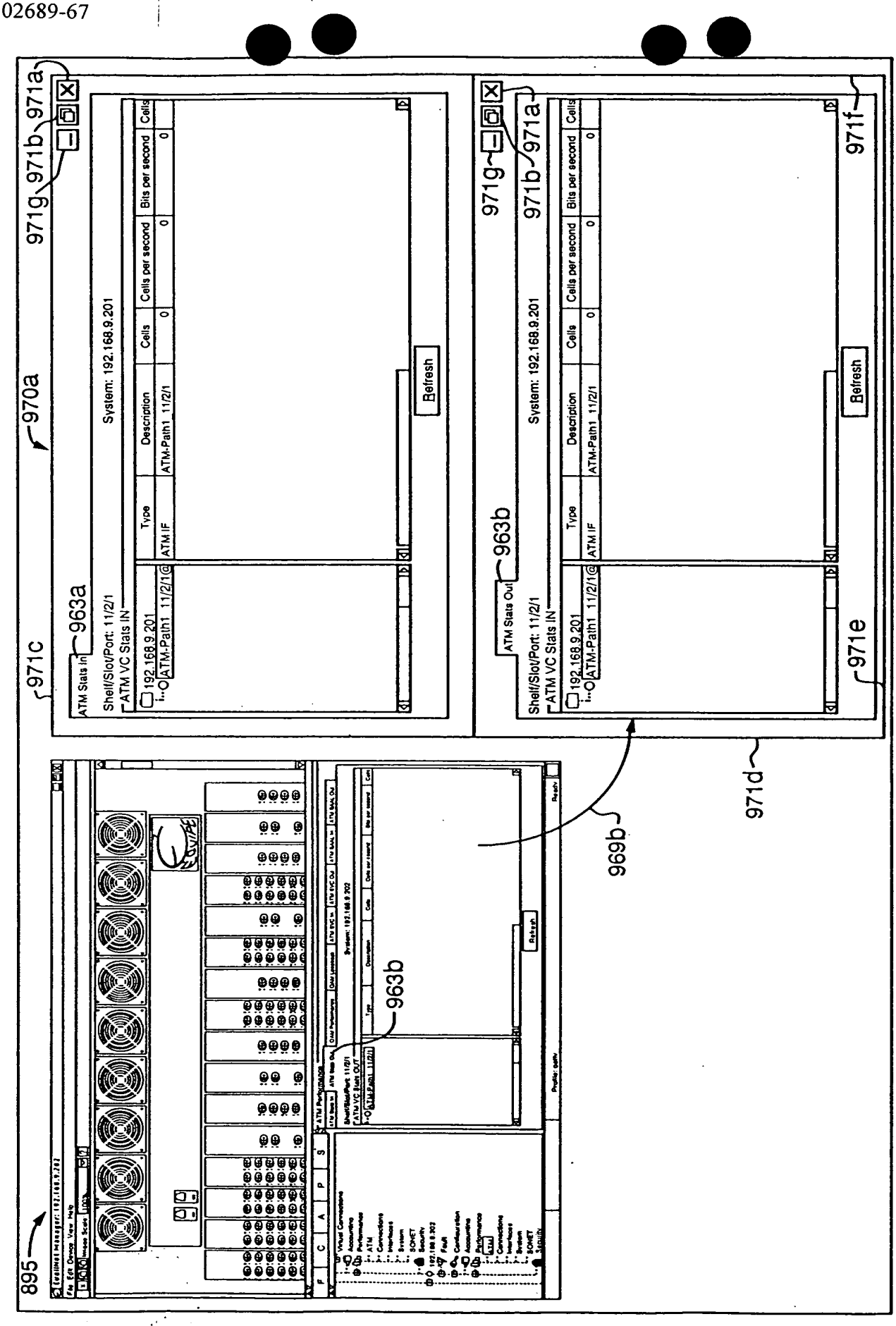

895
971c
970a
971g
971b
971a
963a
ATM Stats In
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
192.168.9.201
ATM-Path1 11/2/1
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1 11/2/1
Refresh
971g
971b
971a
963b
ATM Stats Out
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
971e
971f
971d
969b
963b

FIG. 9C

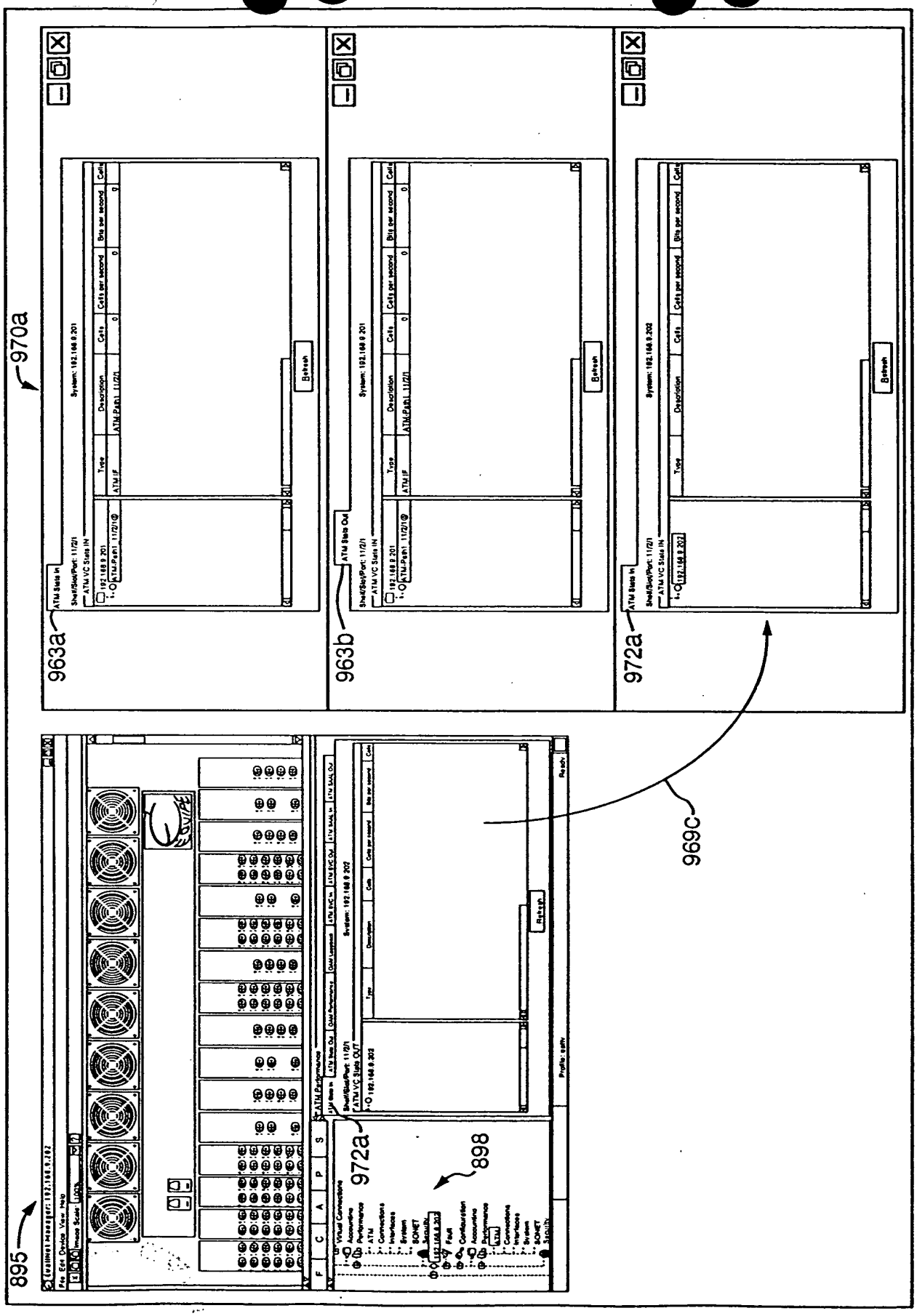


FIG. 9D

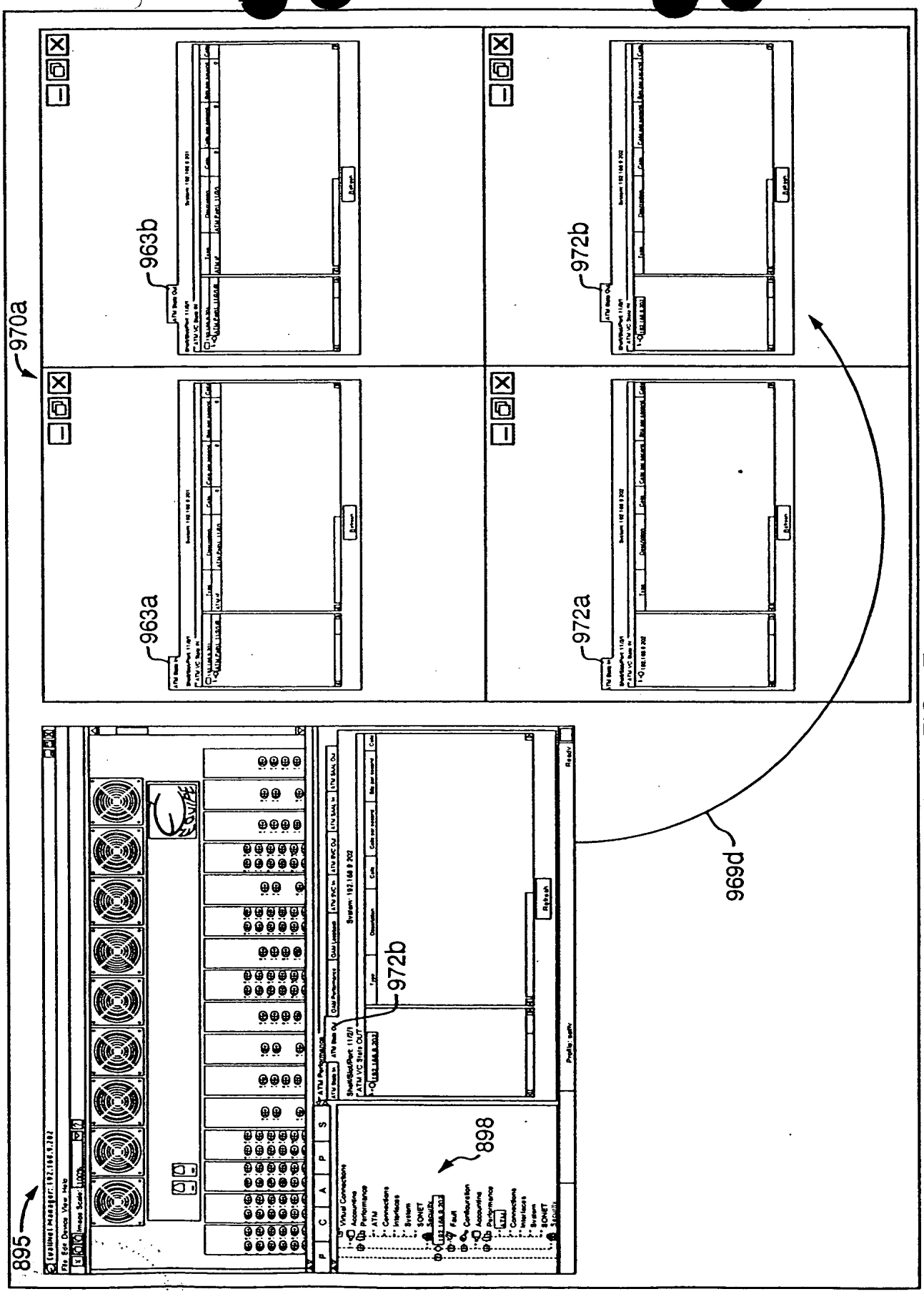


FIG. 9E

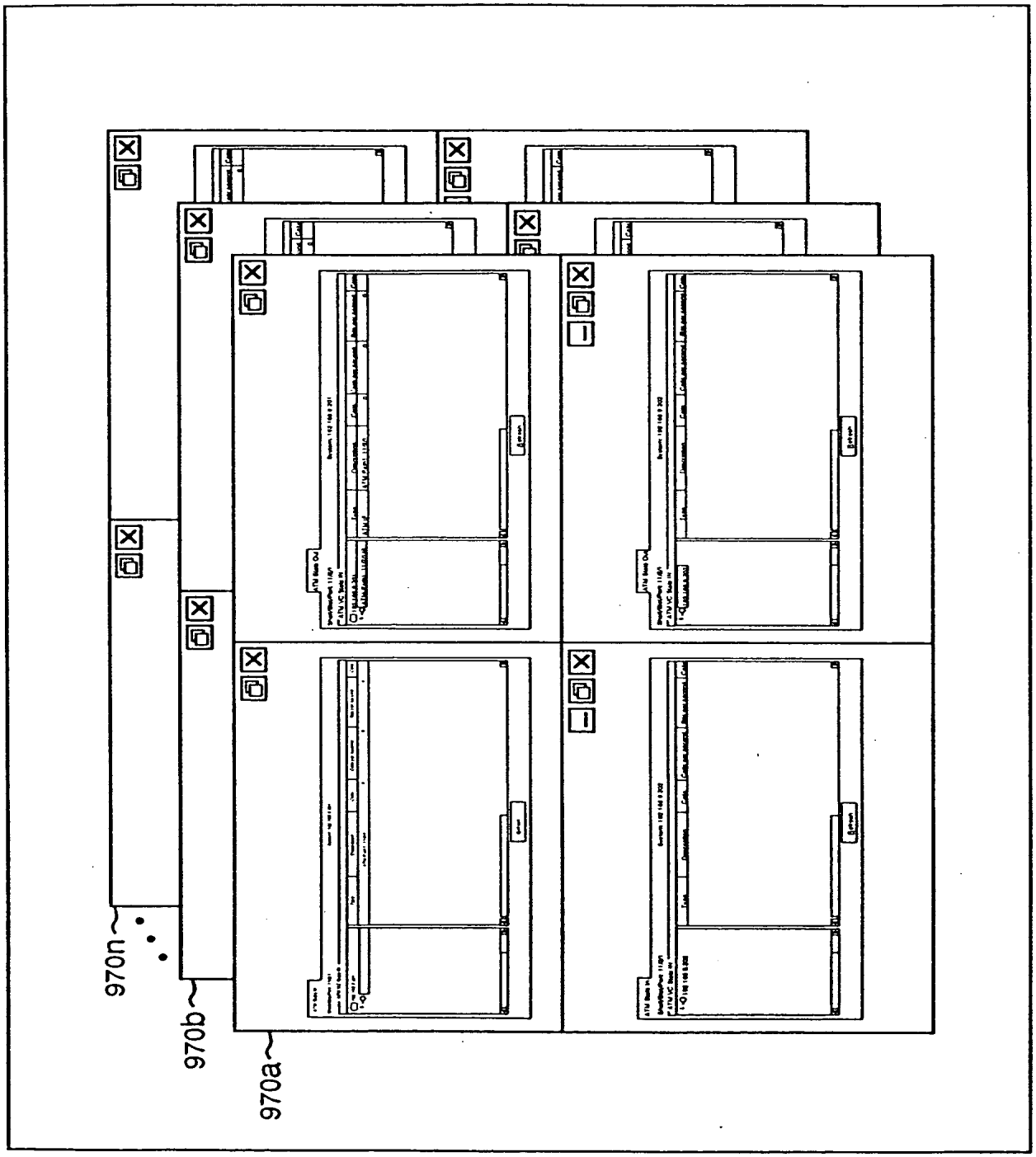


FIG. 9F

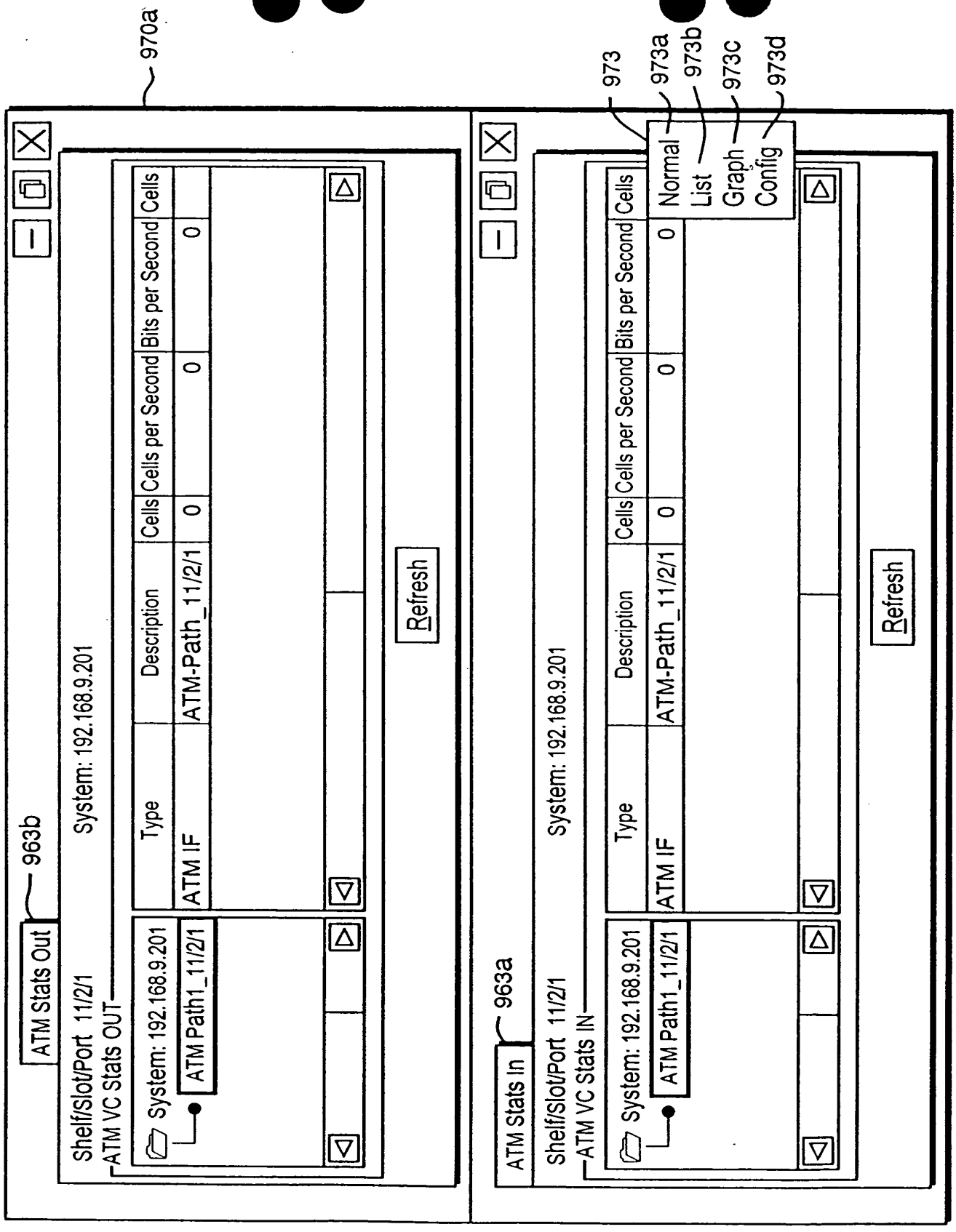
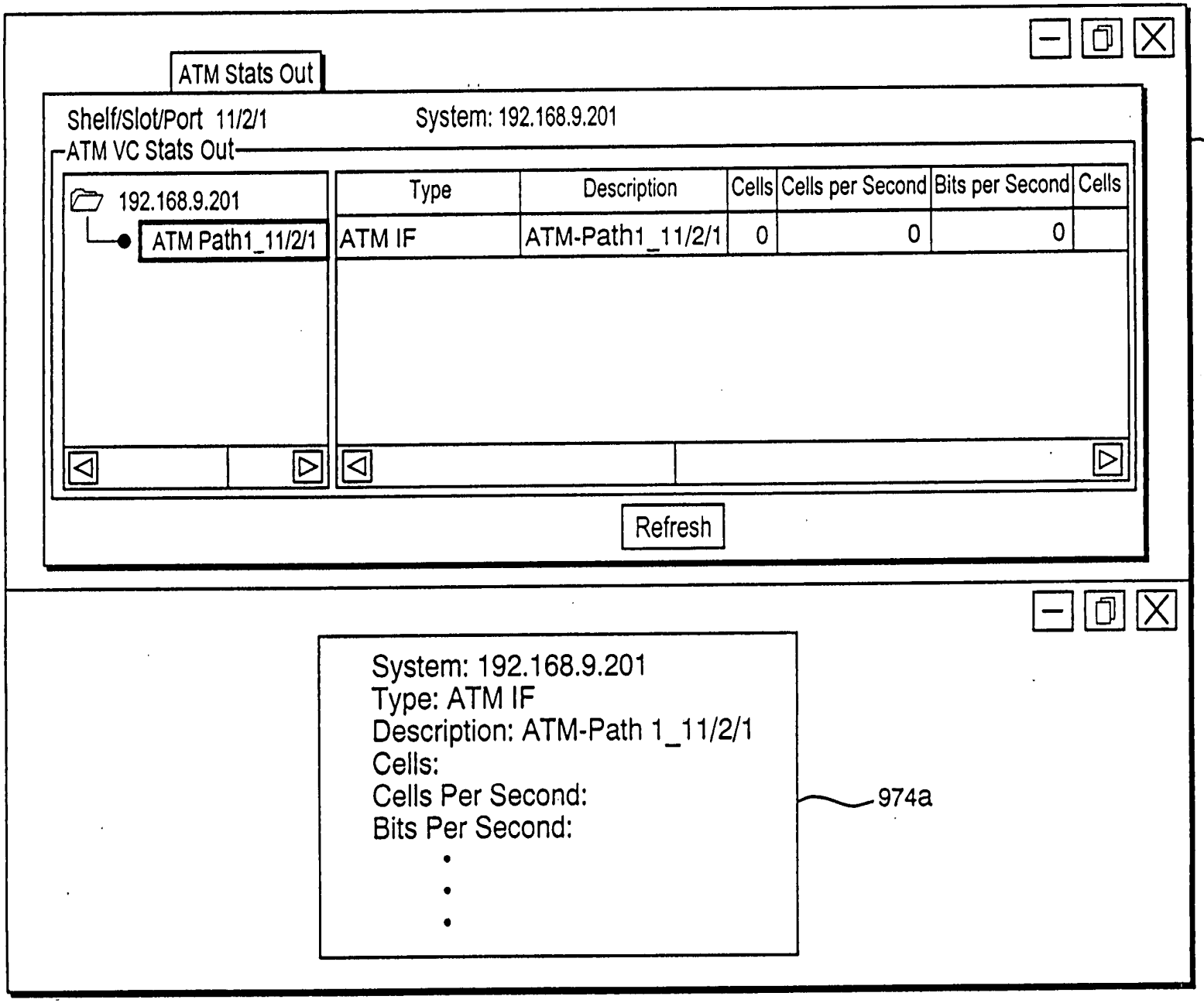

970a
963b
ATM Stats Out
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats OUT
System: 192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path_11/2/1
0
0
0
Refresh
973
973a
973b
973c
973d
Normal
List
Graph
Config
963a
ATM Stats In
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats IN
System: 192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path_11/2/1
0
0
0
Refresh

FIG. 9G



102689-67

FIG. 9H

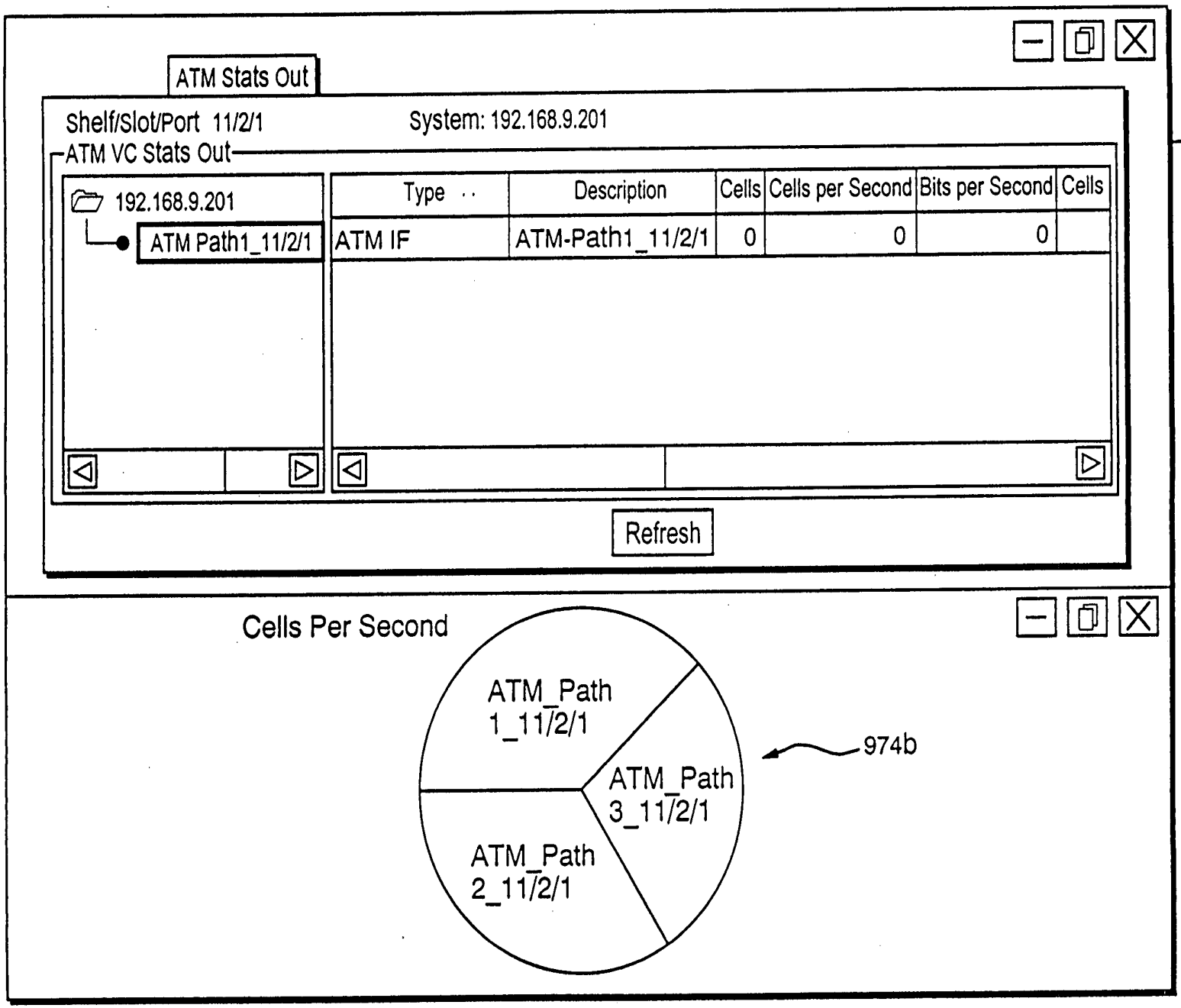


FIG. 9I

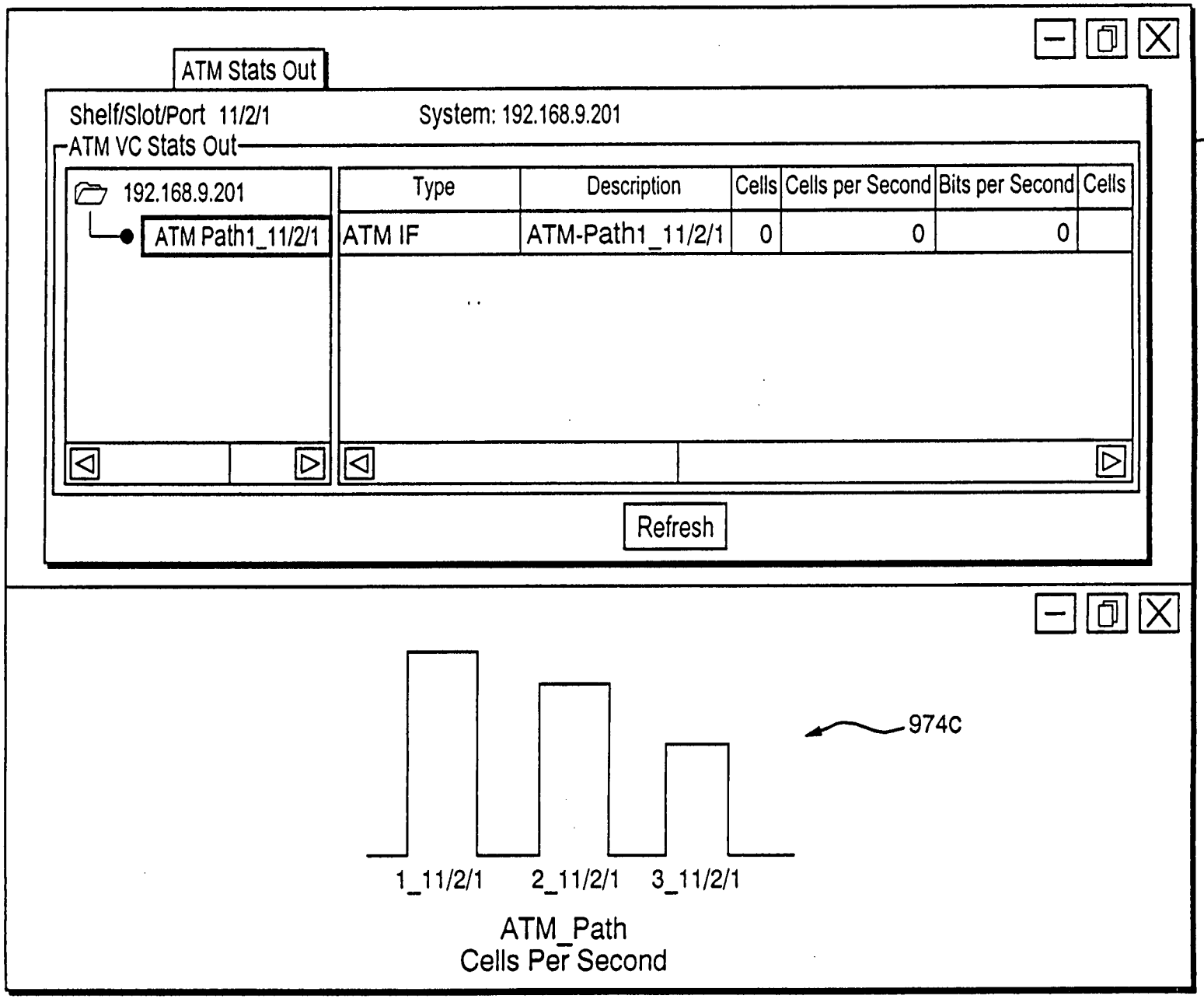


FIG. 9J

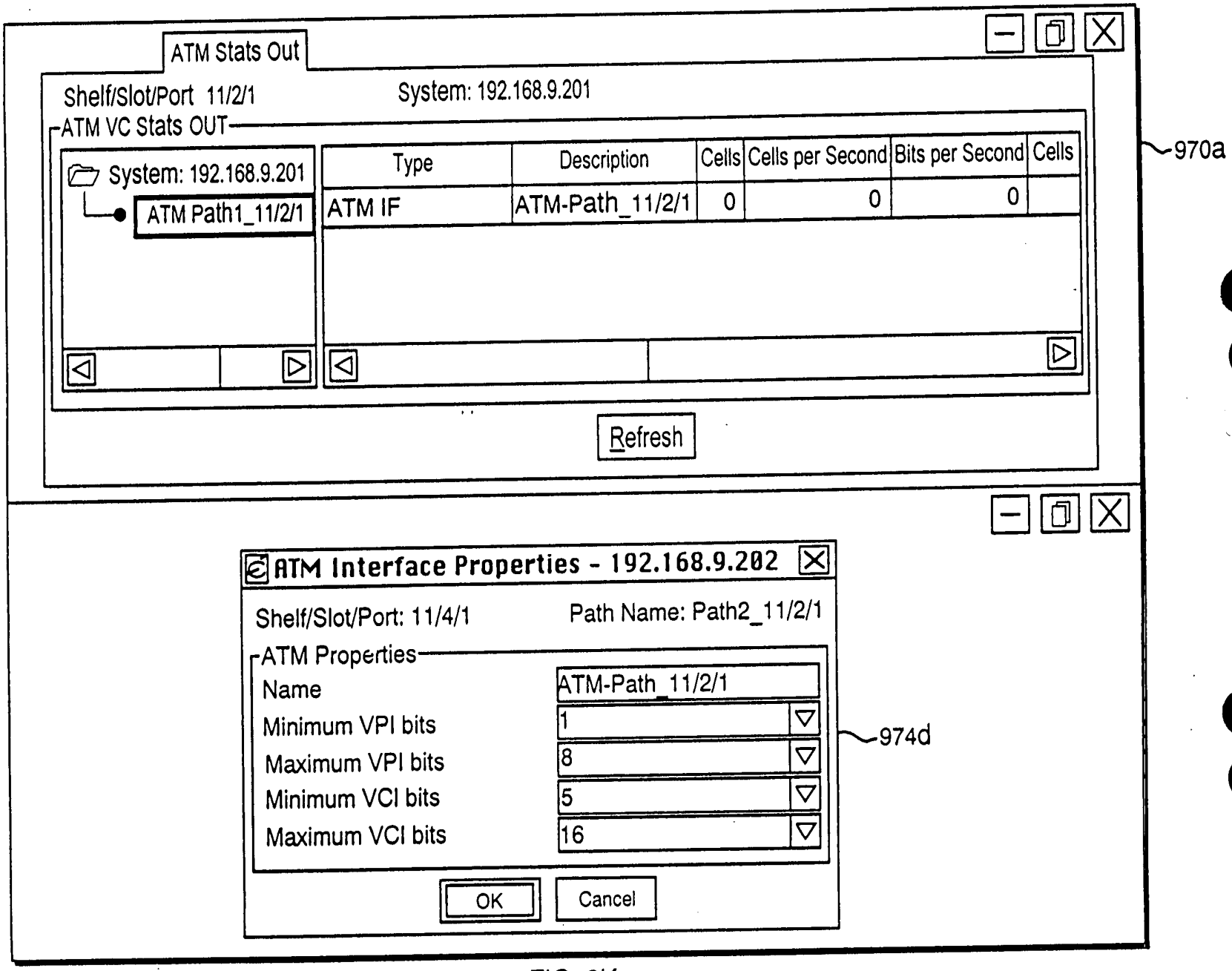

ATM Stats Out
Shelf/Slot/Port 11/2/1
System: 192.168.9.201
ATM VC Stats OUT
System: 192.168.9.201
ATM Path1_11/2/1
Type
Description
Cells
Cells per Second
Bits per Second
Cells
ATM IF
ATM-Path_11/2/1
0
0
0
Refresh
970a
ATM Interface Properties - 192.168.9.202
Shelf/Slot/Port: 11/4/1
Path Name: Path2_11/2/1
ATM Properties
Name
ATM-Path_11/2/1
Minimum VPI bits
1
Maximum VPI bits
8
Minimum VCI bits
5
Maximum VCI bits
16
OK
Cancel
974d
102689-5

FIG. 9K

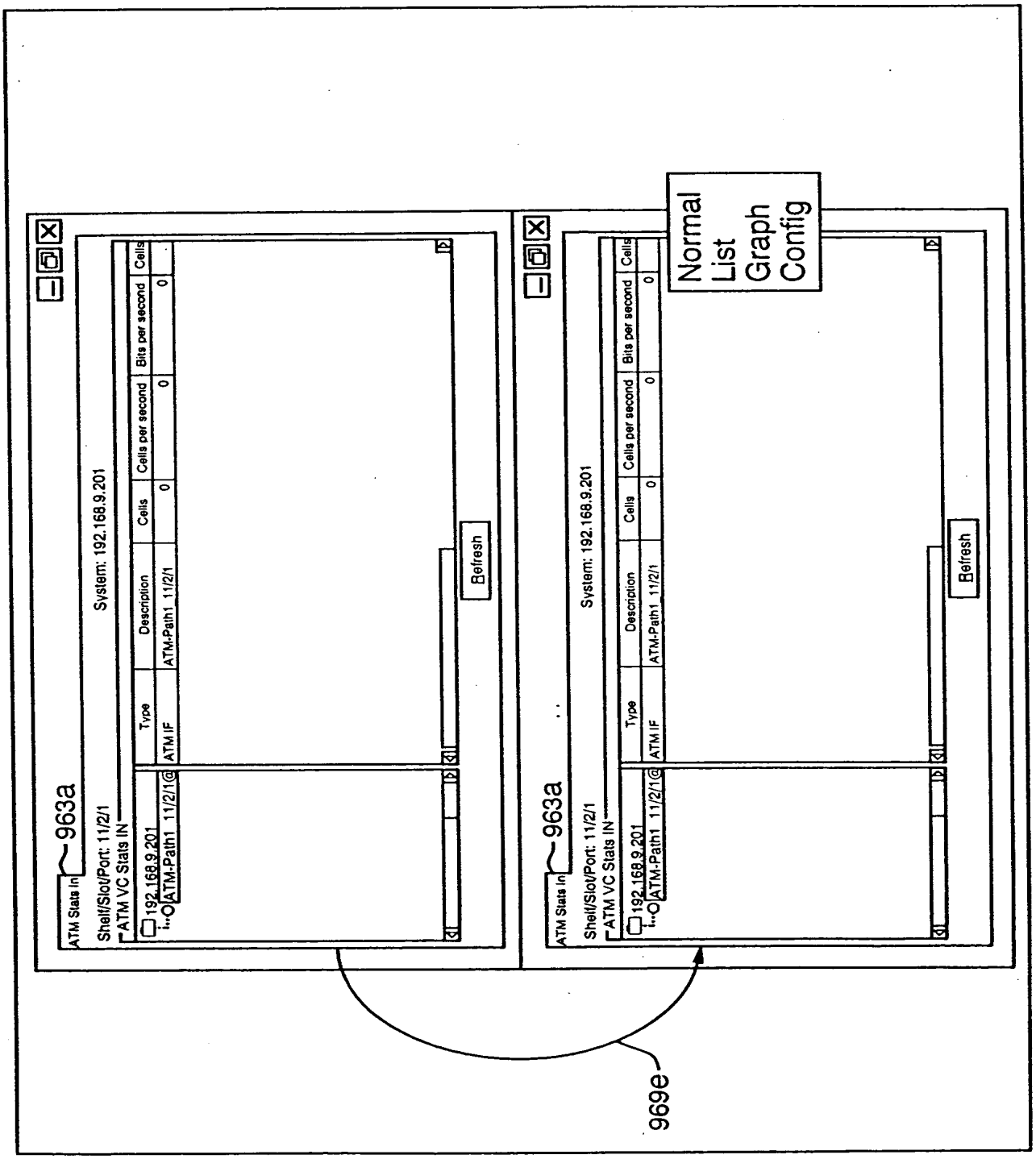

963a
ATM Stats In
Shelf/Slot/Port: 11/2/1
System: 192.168.9.201
ATM VC Stats IN
192.168.9.201
ATM-Path1 11/2/1@
Type
Description
Cells
Cells per second
Bits per second
ATM IF
ATM-Path1 11/2/1
0
Refresh
Normal
List
Graph
Config
969e

FIG. 9L

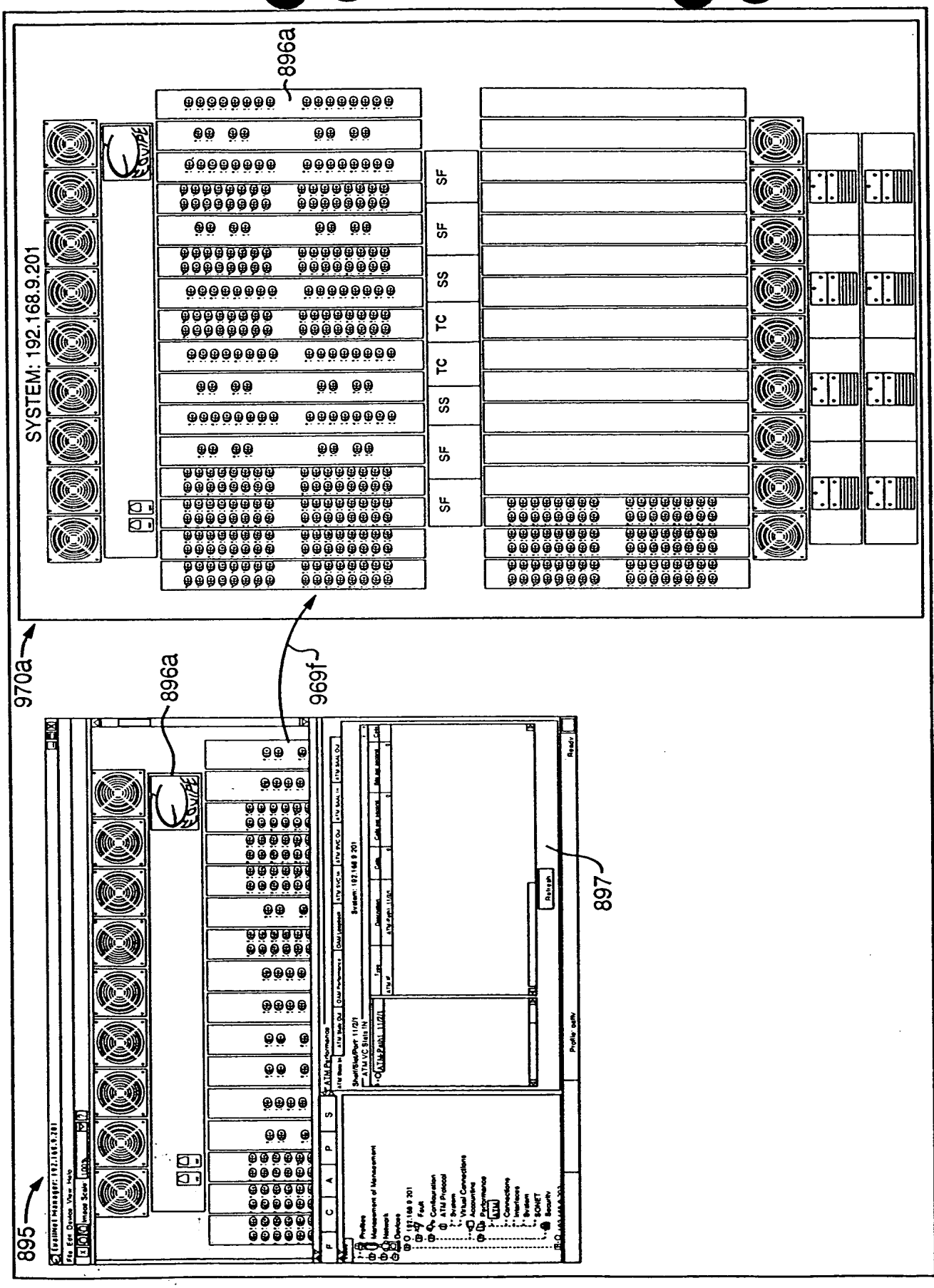

970a
896a
969f
896a
895
897
SYSTEM: 192.168.9.201
SF
SF
SS
TC
TC
SS
SF
SF

FIG. 9M

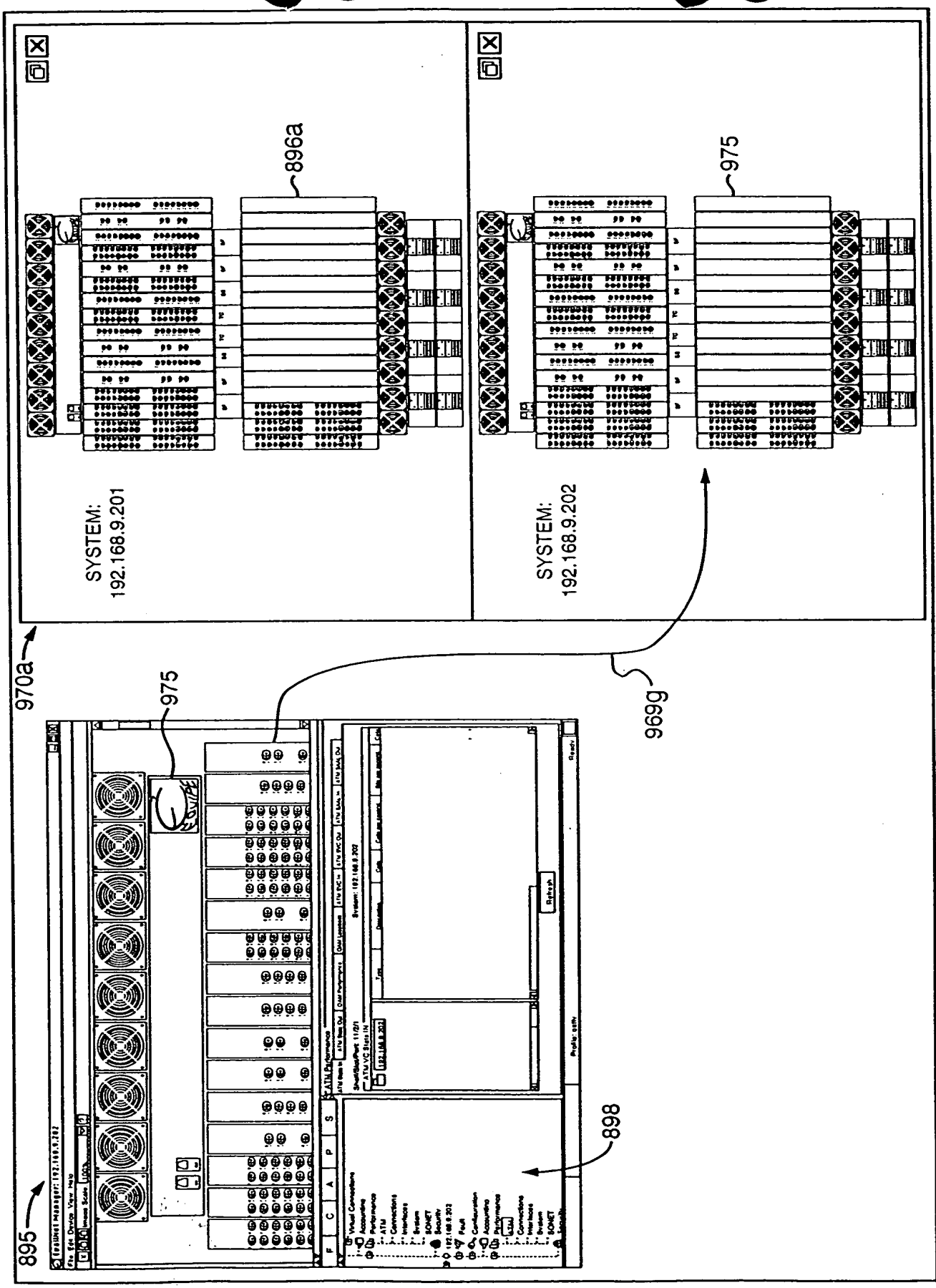

896a
975
SYSTEM:
192.168.9.201
SYSTEM:
192.168.9.202
970a
975
969g
895
898

FIG. 9N

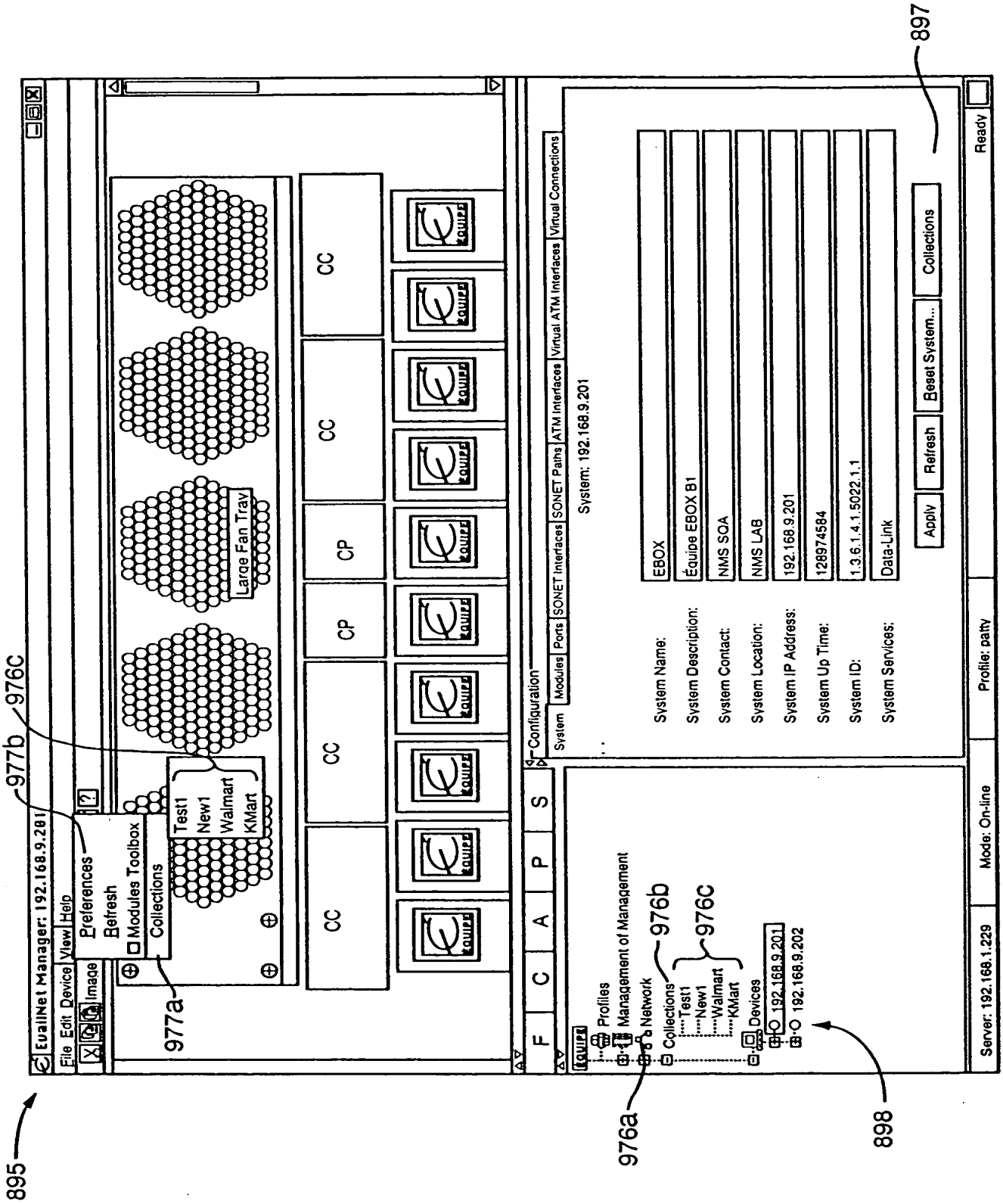

EvalINet Manager: 192.168.9.201
File Edit Device View Help
Preferences
Refresh
Modules Toolbox
Collections
Test1
New1
Walmart
KMart
Large Fan Tray
977a
977b
976c
CC
CP
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
System: 192.168.9.201
System Name:
EBOX
System Description:
Équipe EBOX B1
System Contact:
NMS SOA
System Location:
NMS LAB
System IP Address:
192.168.9.201
System Up Time:
128974584
System ID:
1.3.6.1.4.1.5022.1.1
System Services:
Data-Link
Apply
Refresh
Reset System...
Collections
897
F C A P S
Profiles
Management of Management
Network
Collections
Test1
New1
Walmart
KMart
976b
976c
Devices
192.168.9.201
192.168.9.202
976a
898
895
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 10A

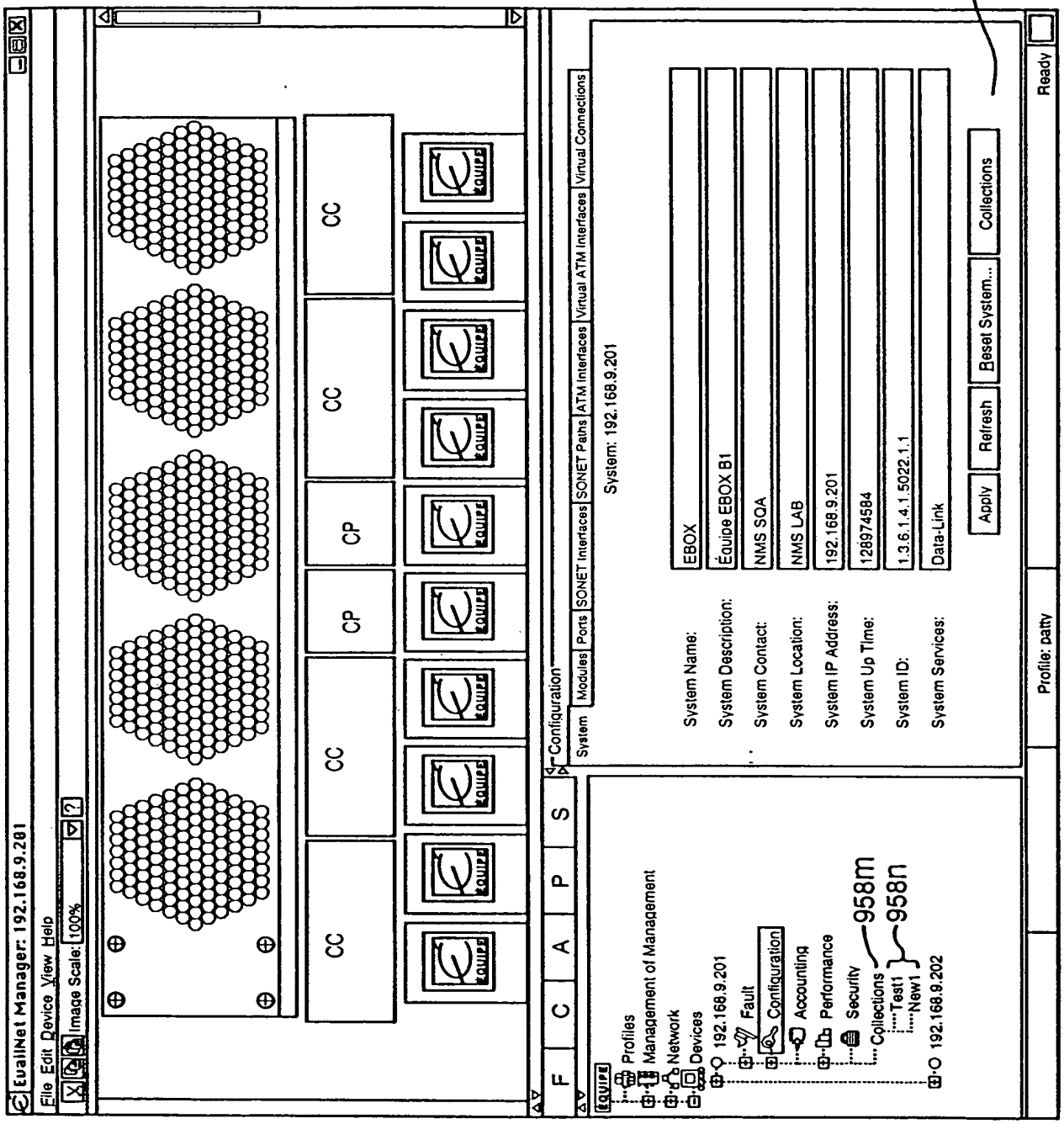

895
EuailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
System Name: EBOX
System Description: Équipe EBOX B1
System Contact: NMS SQA
System Location: NMS LAB
System IP Address: 192.168.9.201
System Up Time: 128974584
System ID: 1.3.6.1.4.1.5022.1.1
System Services: Data-Link
Apply Refresh Reset System... Collections
897
Profiles
Management of Management
Network
Devices
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
Collections
Test1
New1
958m
958n
192.168.9.202
Profile: patty
Ready

FIG. 10B

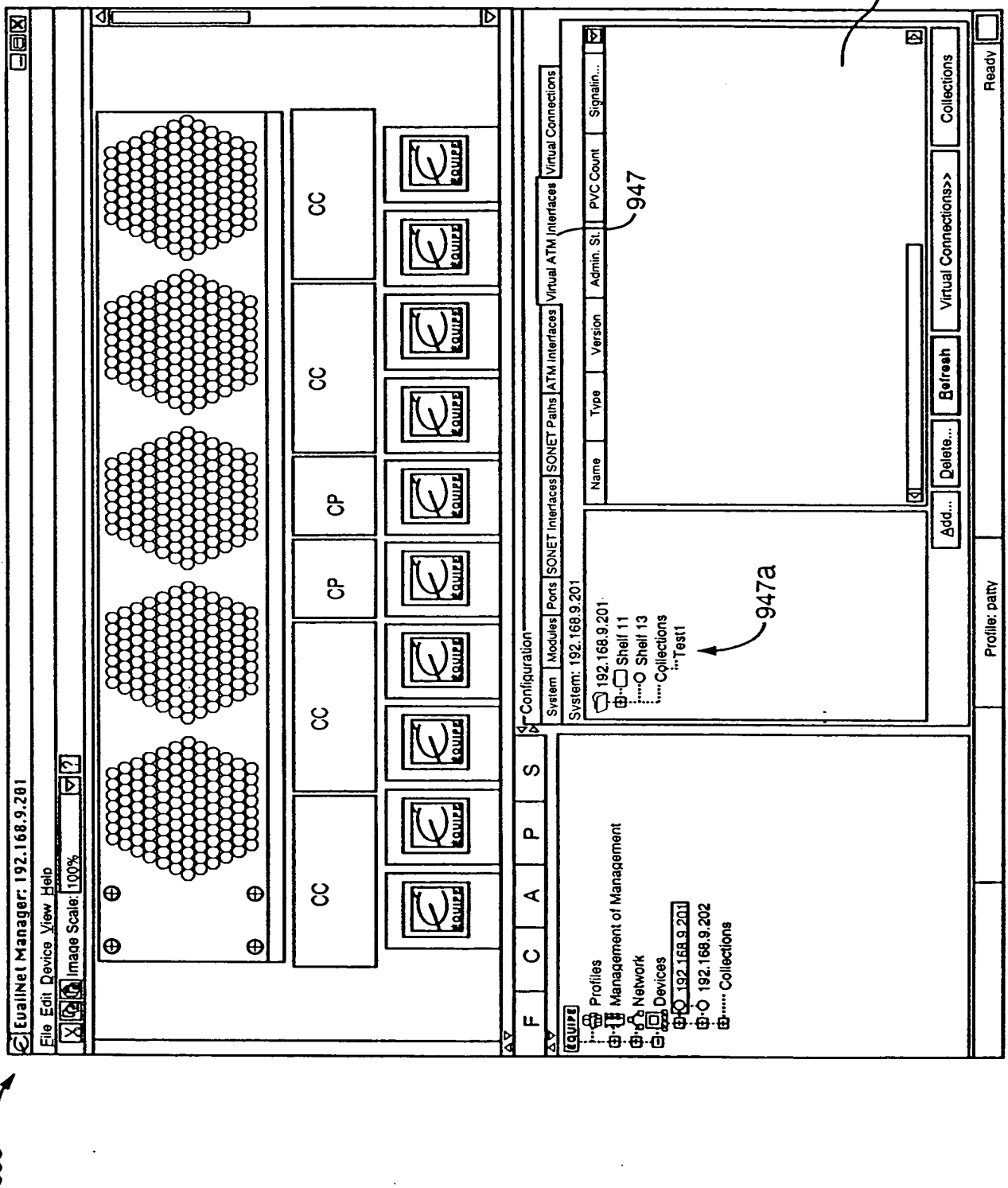

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CP
Configuration
System | Modules | Ports | SONET Interfaces | SONET Paths | ATM Interfaces | Virtual ATM Interfaces | Virtual Connections
System: 192.168.9.201
192.168.9.201
Shelf 11
Shelf 13
Collections
Test1
Name | Type | Version | Admin. St. | PVC Count | Signalin...
Add... | Delete... | Refresh | Virtual Connections>> | Collections
F | C | A | P | S
Profiles
Management of Management
Network
Devices
192.168.9.201
192.168.9.202
Collections
Profile: patty
Ready
895
897
947
947a

FIG. 10C

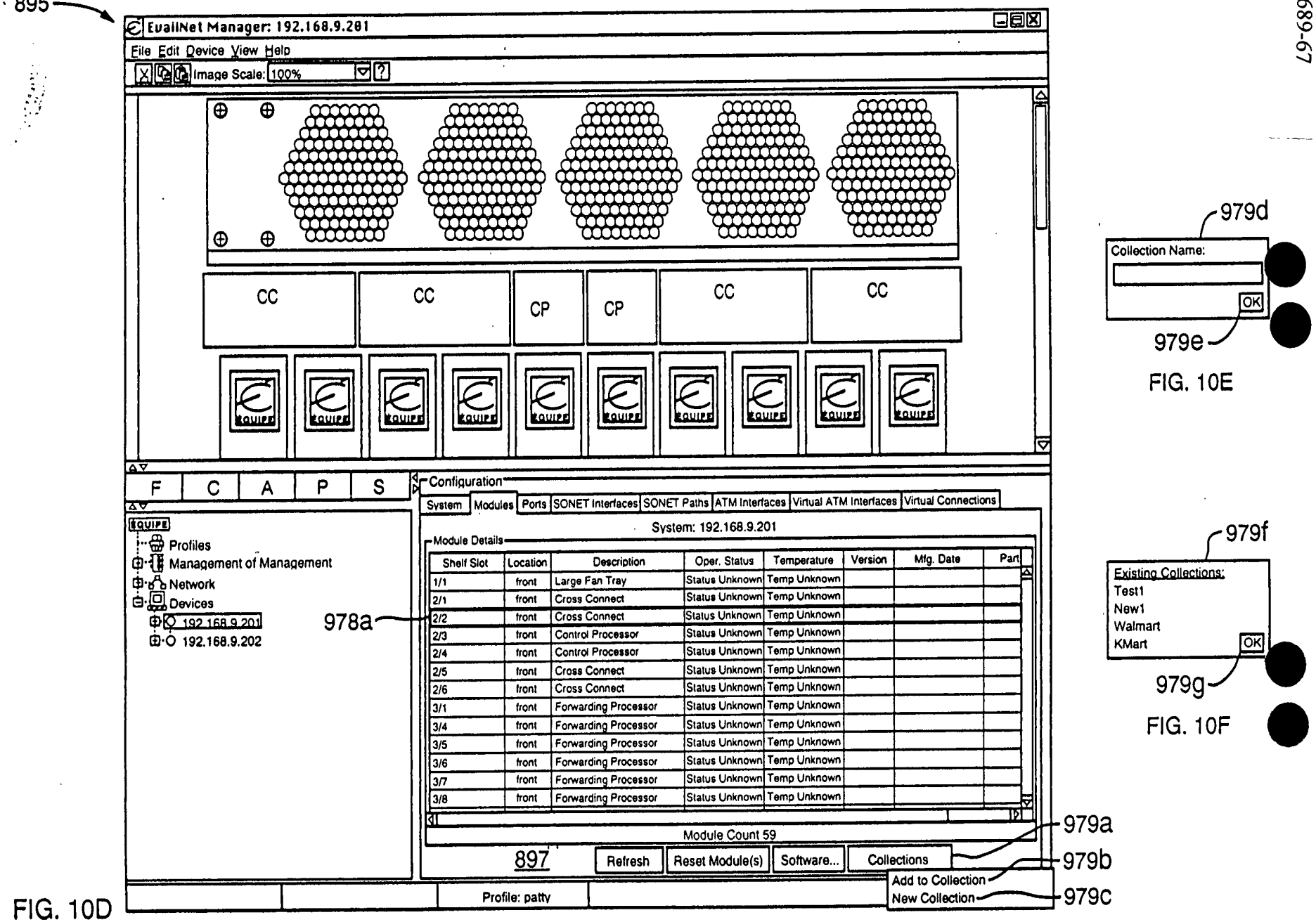


FIG. 10D

FIG. 10E

FIG. 10F

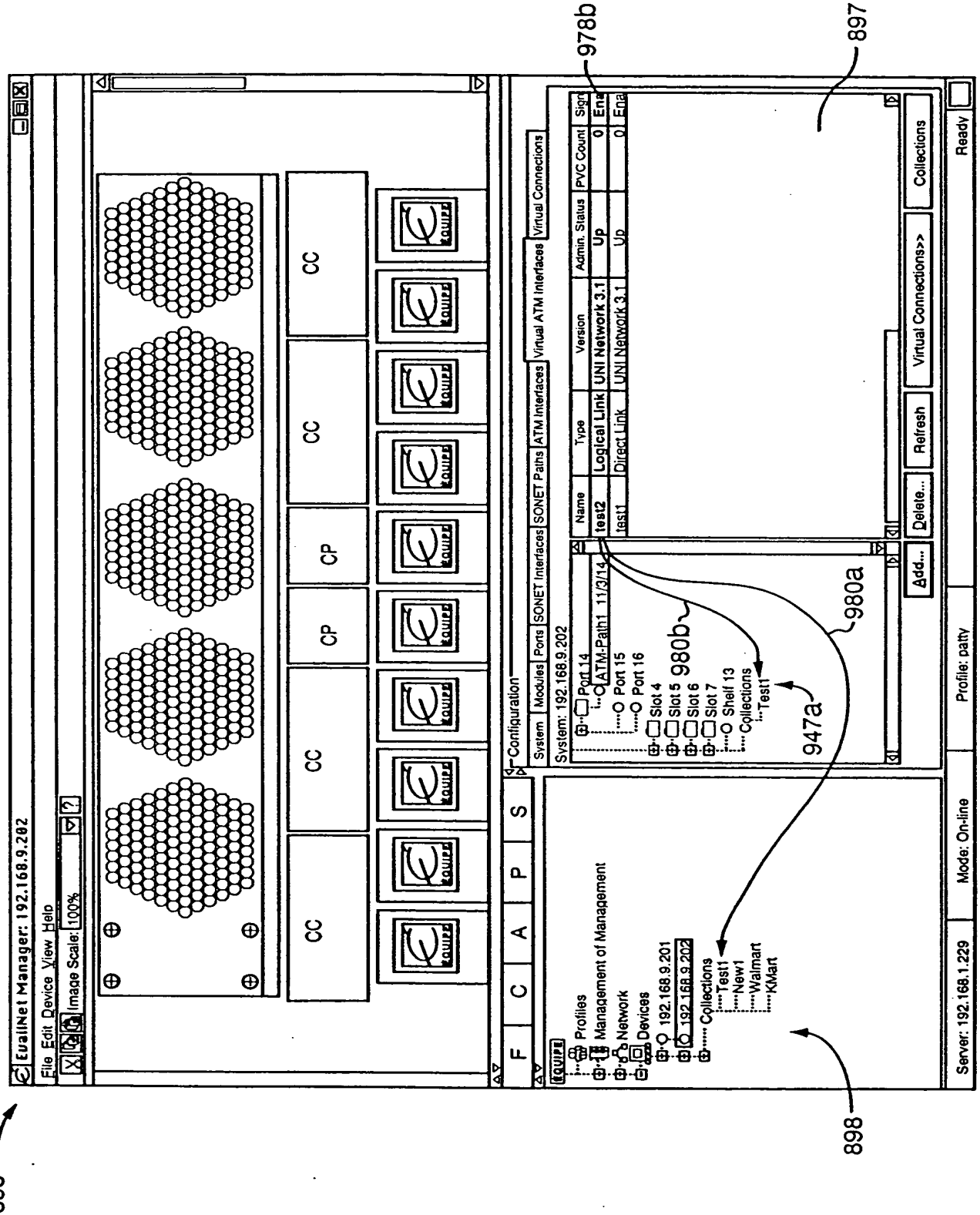

EvalNet Manager: 192.168.9.202
File Edit Device View Help
Image Scale: 100%
CC
CP
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
Port 14
ATM-Path1 11/3/14
Port 15
Port 16
Slot 4
Slot 5
Slot 6
Slot 7
Shelf 13
Collections
Test1
Name Type Version Admin. Status PVC Count Sign
test2 Logical Link UNI Network 3.1 Up 0 Ena
test1 Direct Link UNI Network 3.1 Up 0 Ena
Add... Delete... Refresh Virtual Connections>> Collections
Profiles
Management of Management
Network
Devices
192.168.9.201
192.168.9.202
Collections
Test1
New1
Walmart
KMart
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895
898
897
978b
980b
980a
947a

FIG. 10G

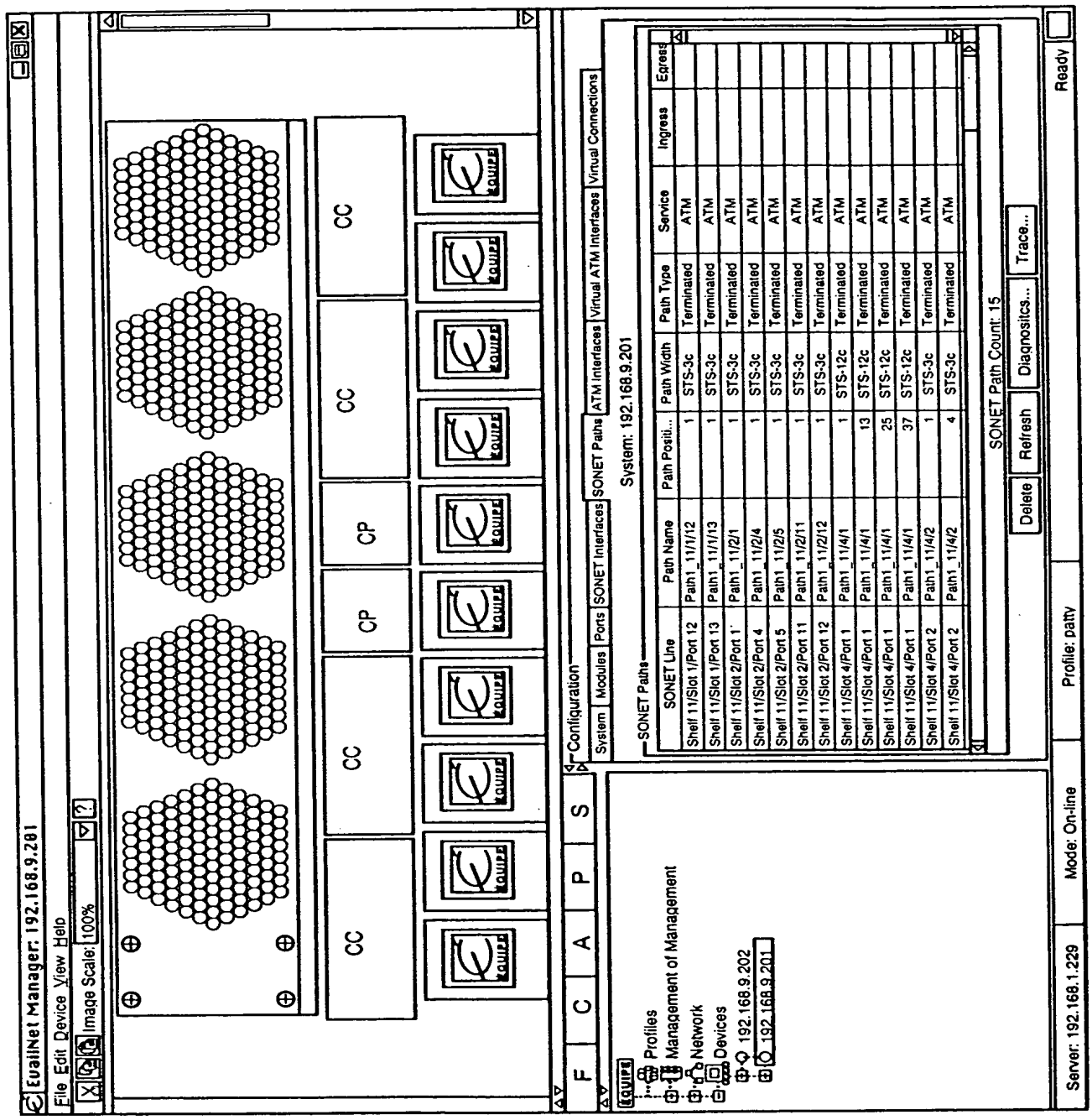

EvalNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CP
Configuration
System | Modules | Ports | SONET Interfaces | SONET Paths | ATM Interfaces | Virtual ATM Interfaces | Virtual Connections
System: 192.168.9.201
SONET Paths
SONET Line | Path Name | Path Positi... | Path Width | Path Type | Service | Ingress | Egress
Shelf 11/Slot 1/Port 12 | Path1_11/1/12 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 1/Port 13 | Path1_11/1/13 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 2/Port 1 | Path1_11/2/1 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 2/Port 4 | Path1_11/2/4 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 2/Port 5 | Path1_11/2/5 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 2/Port 11 | Path1_11/2/11 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 2/Port 12 | Path1_11/2/12 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path1_11/4/1 | 1 | STS-12c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path1_11/4/1 | 13 | STS-12c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path1_11/4/1 | 25 | STS-12c | Terminated | ATM
Shelf 11/Slot 4/Port 1 | Path1_11/4/1 | 37 | STS-12c | Terminated | ATM
Shelf 11/Slot 4/Port 2 | Path1_11/4/2 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 2 | Path1_11/4/2 | 4 | STS-3c | Terminated | ATM
SONET Path Count: 15
Delete | Refresh | Diagnostics... | Trace...
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 10H

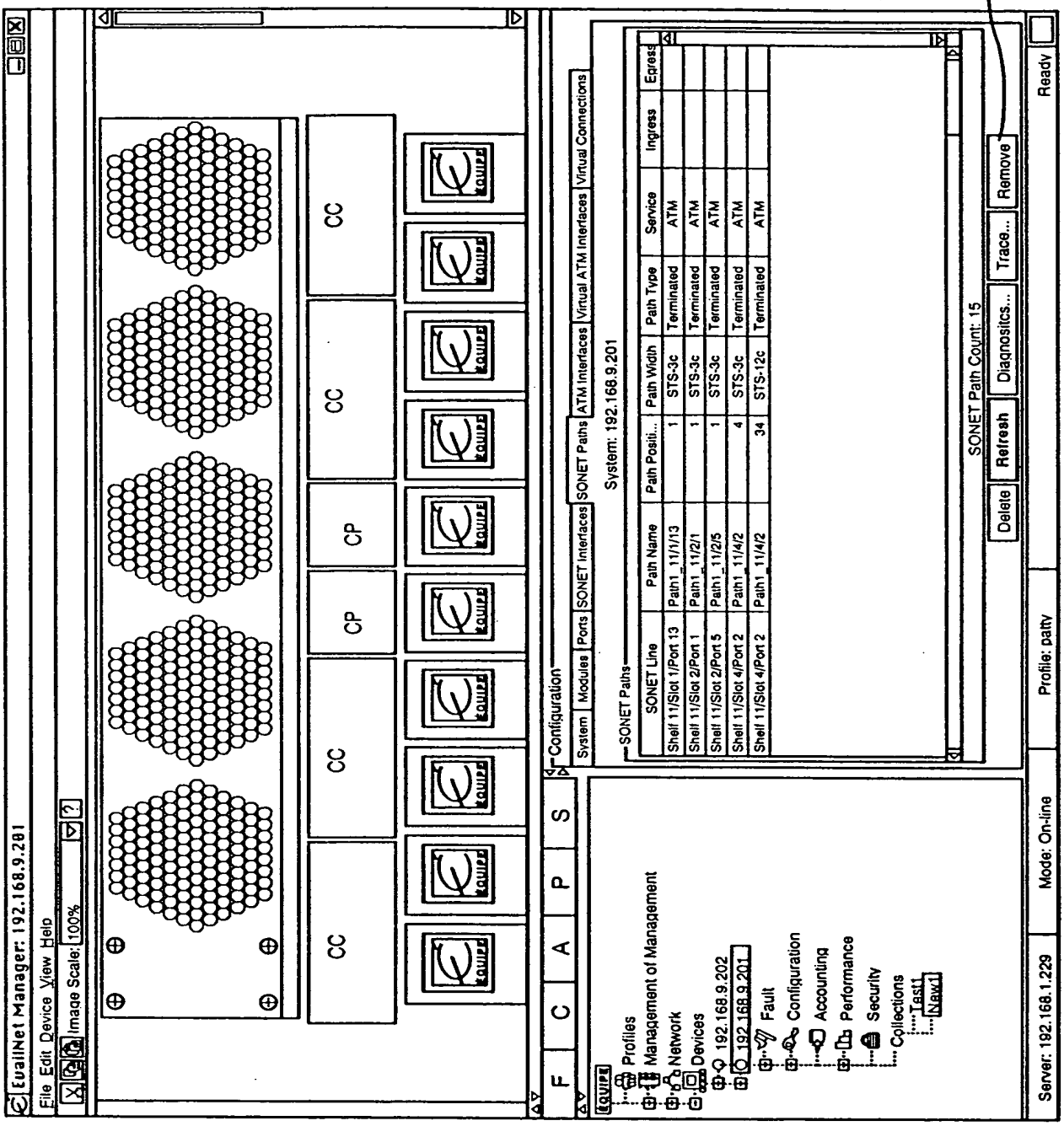

EuailNet Manager: 192.168.9.201
File Edit Device View Help
Image Scale: 100%
CC
CP
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.201
SONET Paths
SONET Line | Path Name | Path Positi... | Path Width | Path Type | Service | Ingress | Egress
Shelf 11/Slot 1/Port 13 | Path1_11/1/13 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 2/Port 1 | Path1_11/2/1 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 2/Port 5 | Path1_11/2/5 | 1 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 2 | Path1_11/4/2 | 4 | STS-3c | Terminated | ATM
Shelf 11/Slot 4/Port 2 | Path1_11/4/2 | 34 | STS-12c | Terminated | ATM
SONET Path Count: 15
Delete Refresh Diagnostics... Trace... Remove
982
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
Fault
Configuration
Accounting
Performance
Security
Collections
Test1
New1
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 101

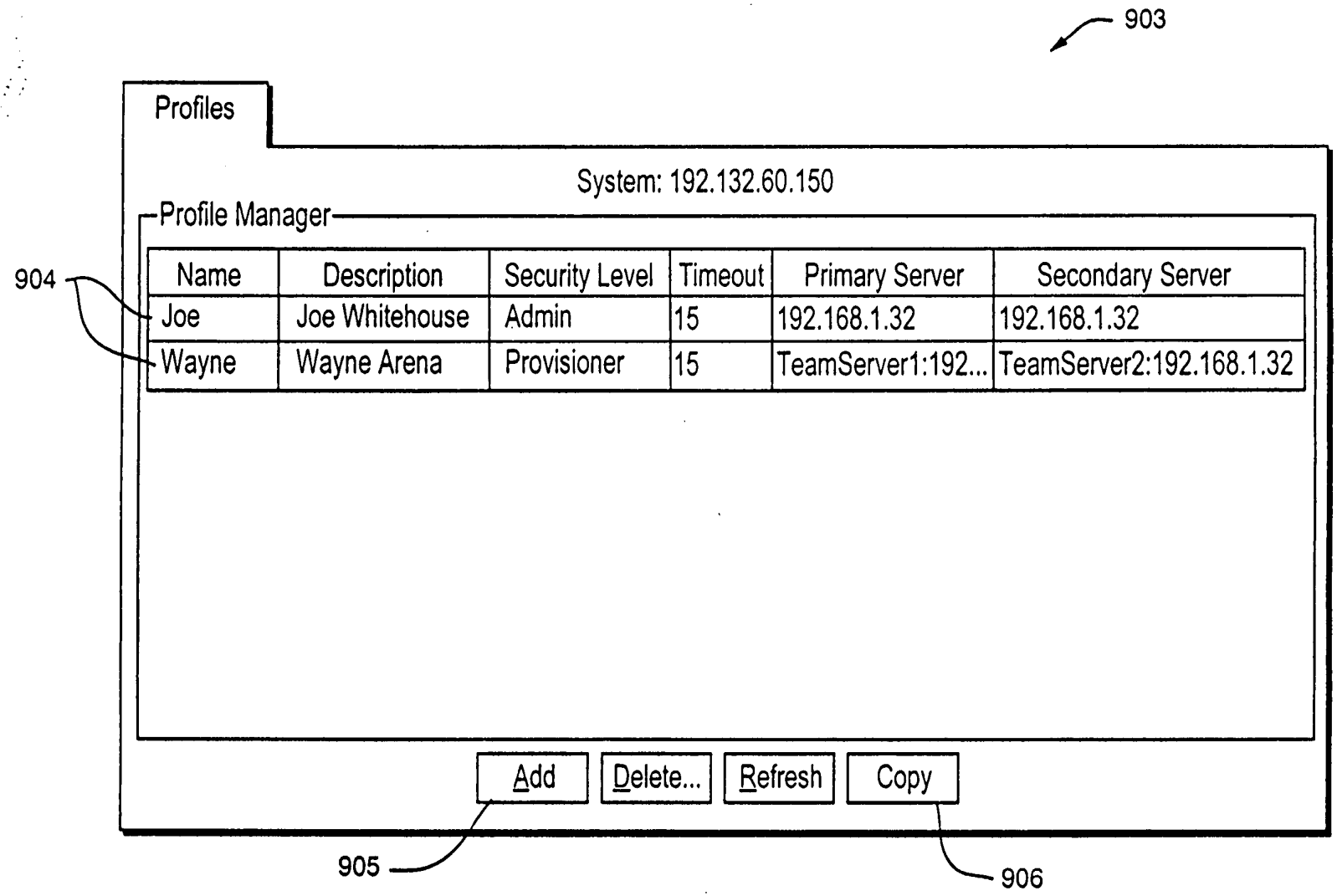


FIG. 11A

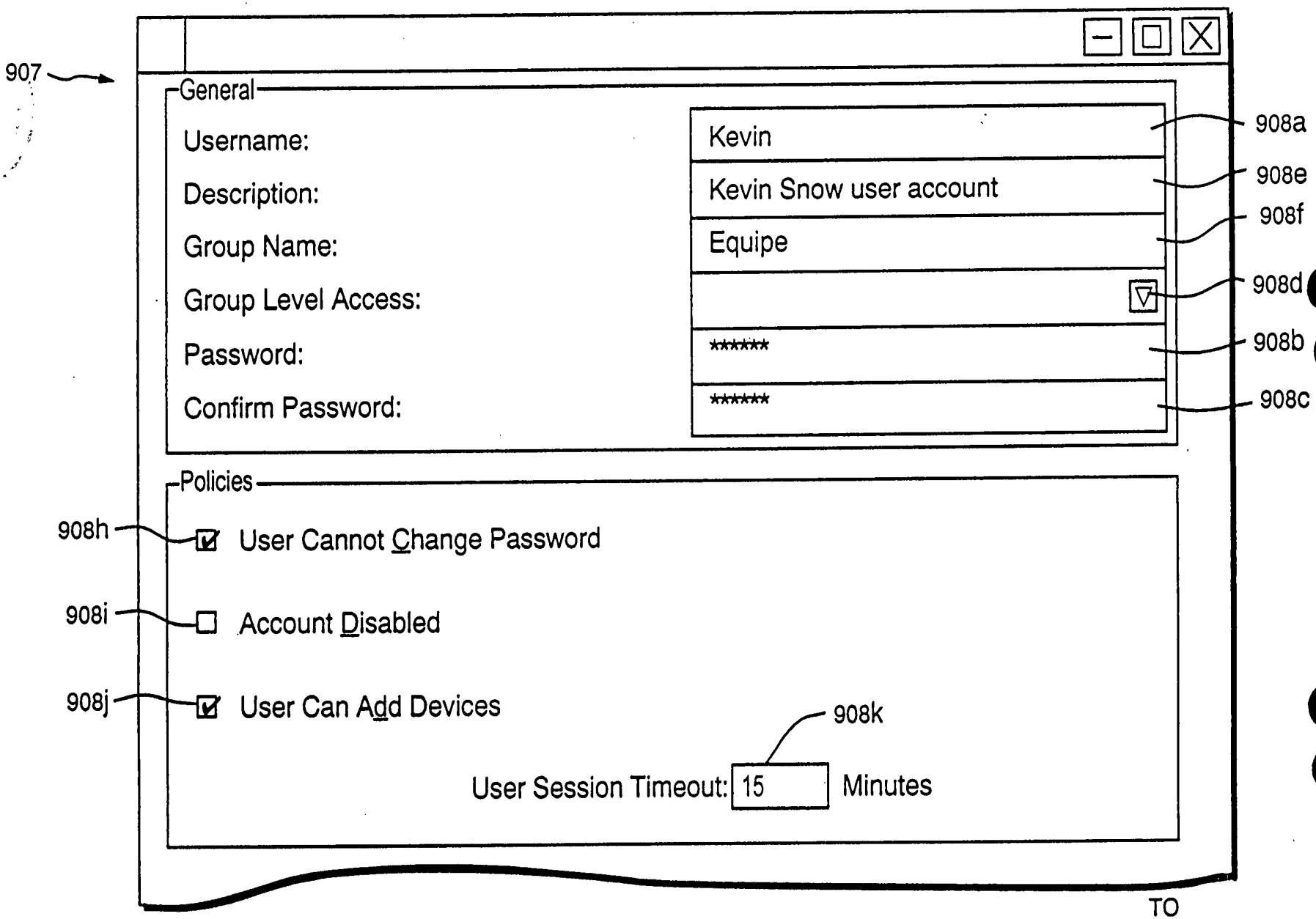

907
General
Username:
Kevin
908a
Description:
Kevin Snow user account
908e
Group Name:
Equipe
908f
Group Level Access:
908d
Password:
******
908b
Confirm Password:
******
908c
Policies
908h
User Cannot Change Password
908i
Account Disabled
908j
User Can Add Devices
908k
User Session Timeout:
15
Minutes
TO
FIG. 11C

FIG. 11B

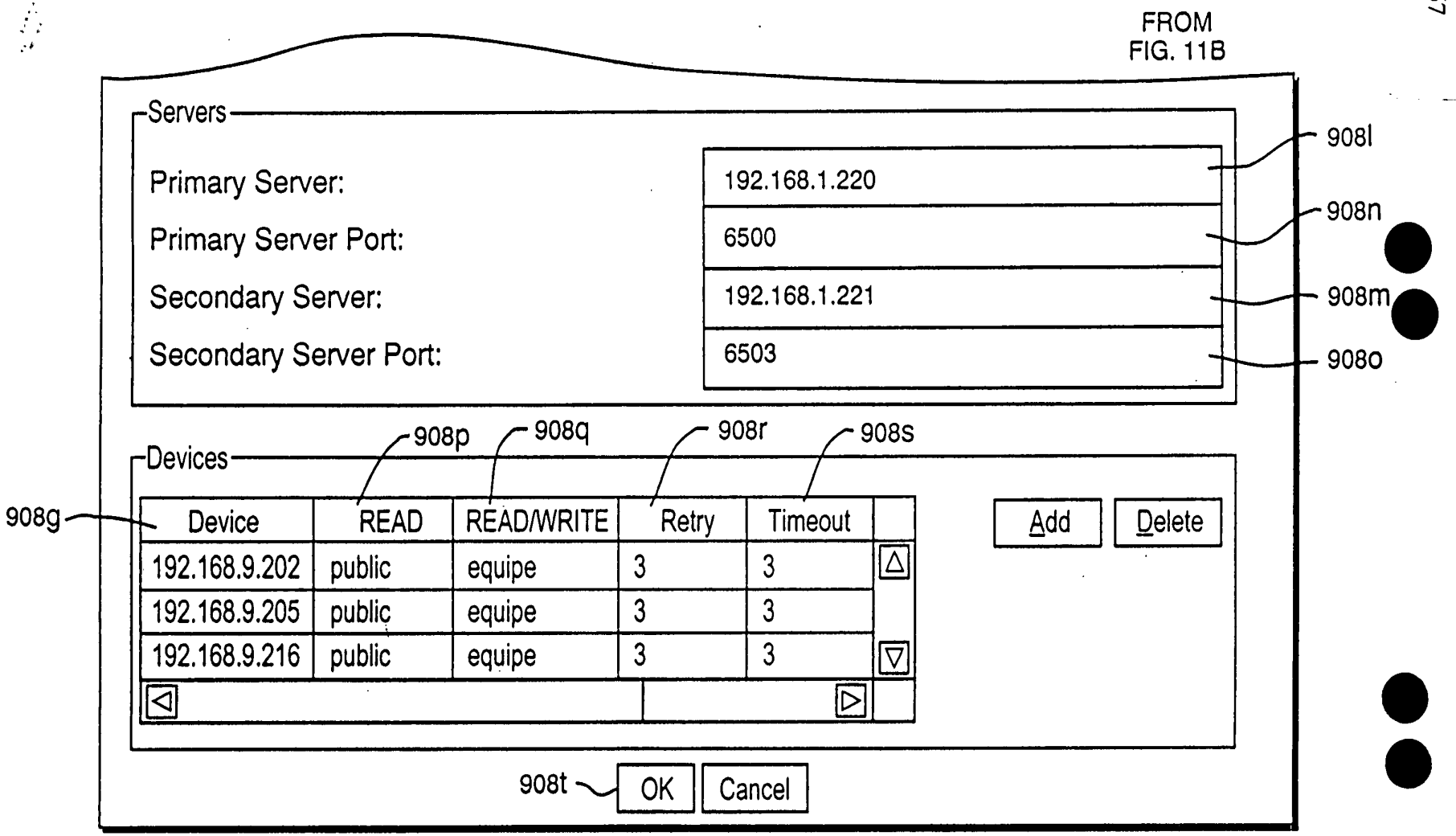


FIG. 11C

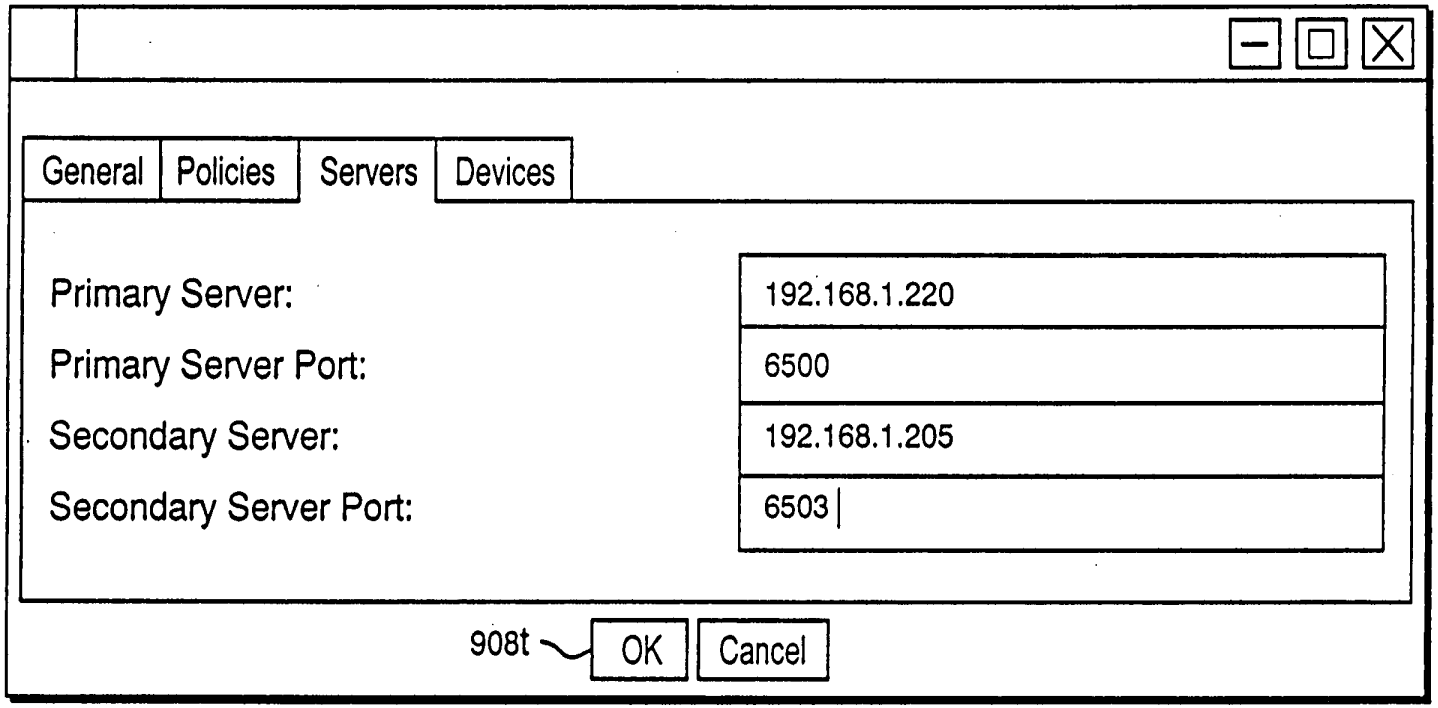


FIG. 11D

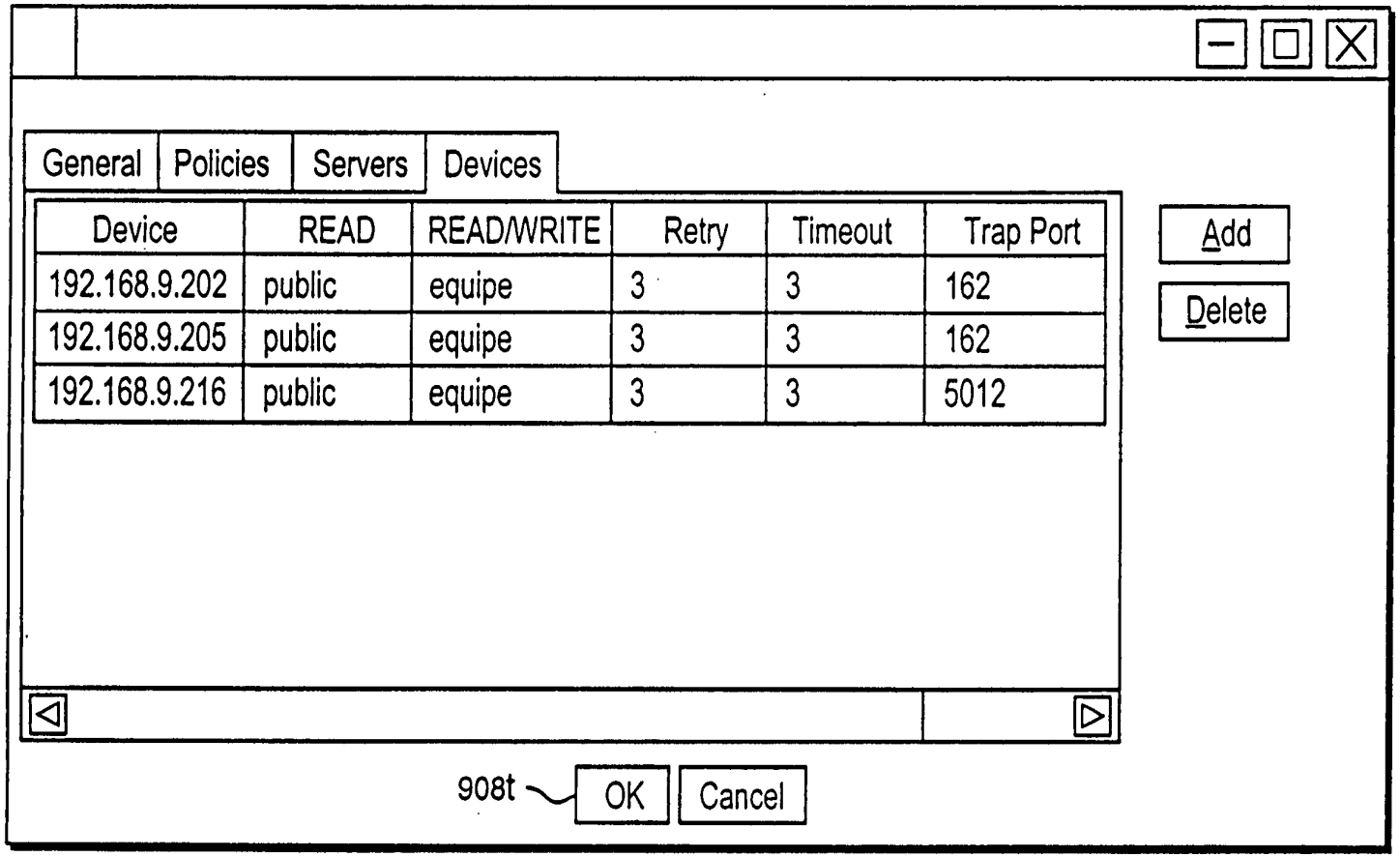

General
Policies
Servers
Devices
Device
READ
READ/WRITE
Retry
Timeout
Trap Port
192.168.9.202
public
equipe
3
3
162
192.168.9.205
public
equipe
3
3
162
192.168.9.216
public
equipe
3
3
5012
Add
Delete
908t
OK
Cancel

FIG. 11E

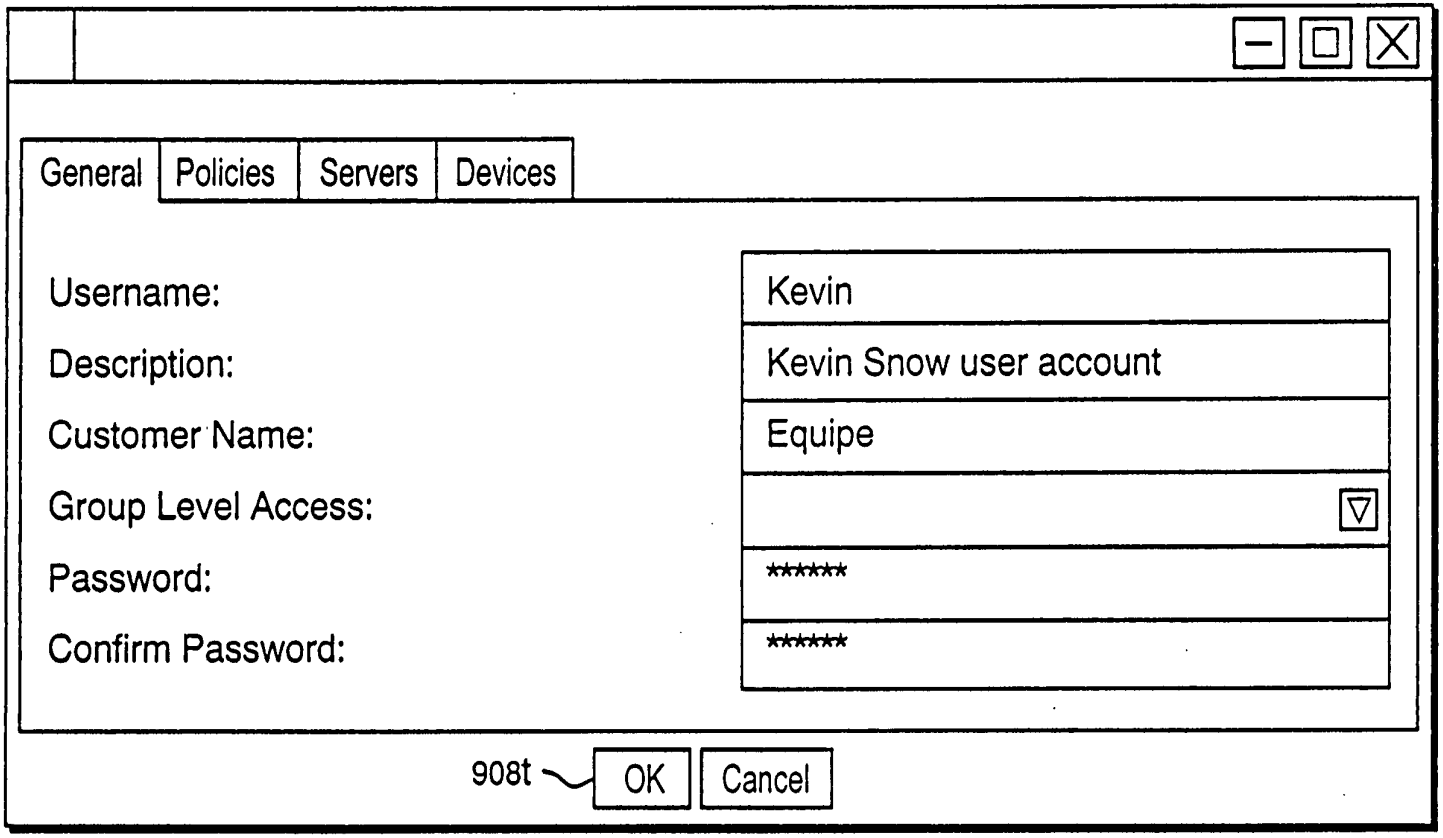


FIG. 11F

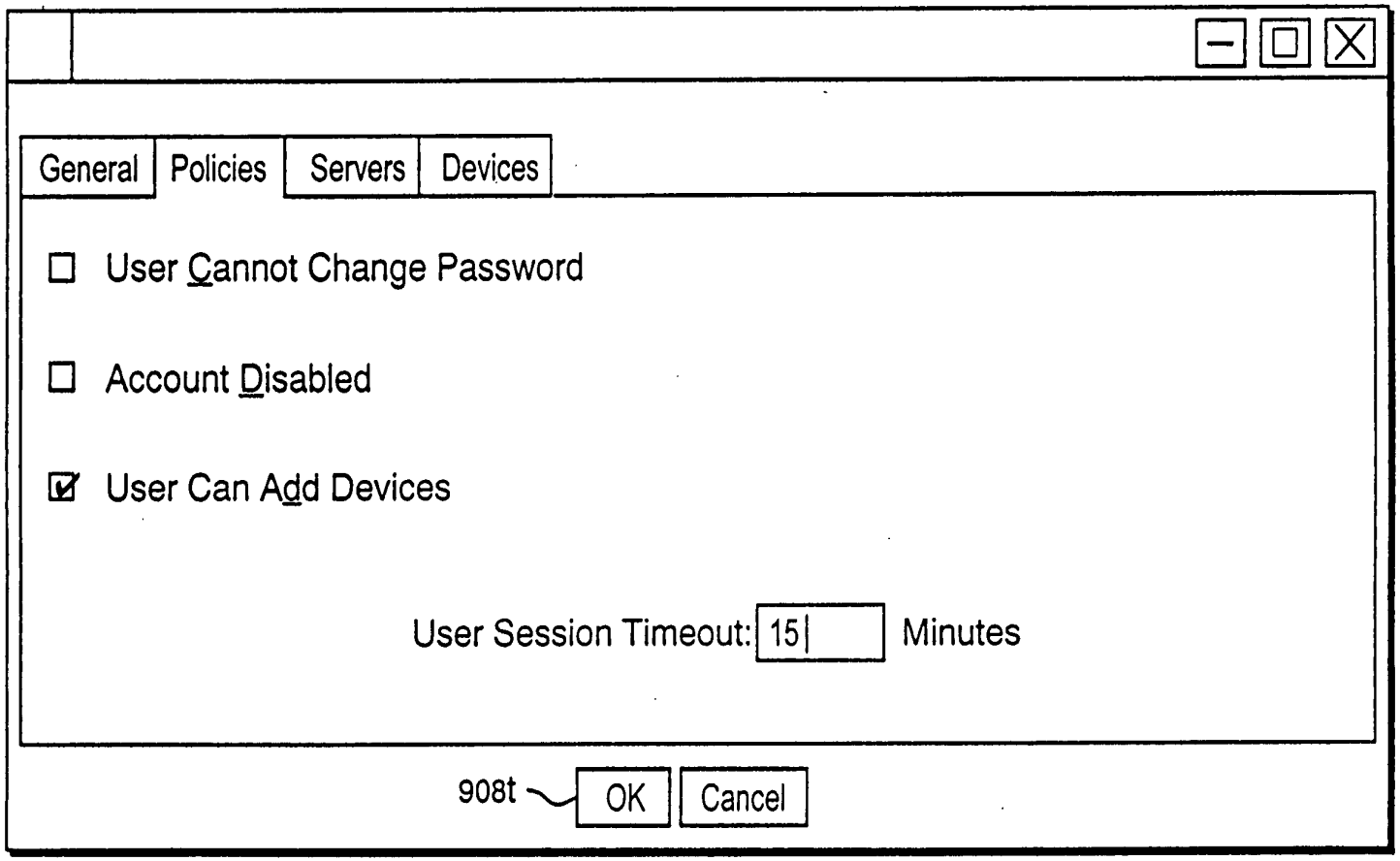

General
Policies
Servers
Devices
User Cannot Change Password
Account Disabled
User Can Add Devices
User Session Timeout: 15 Minutes
908t
OK
Cancel

FIG. 11G

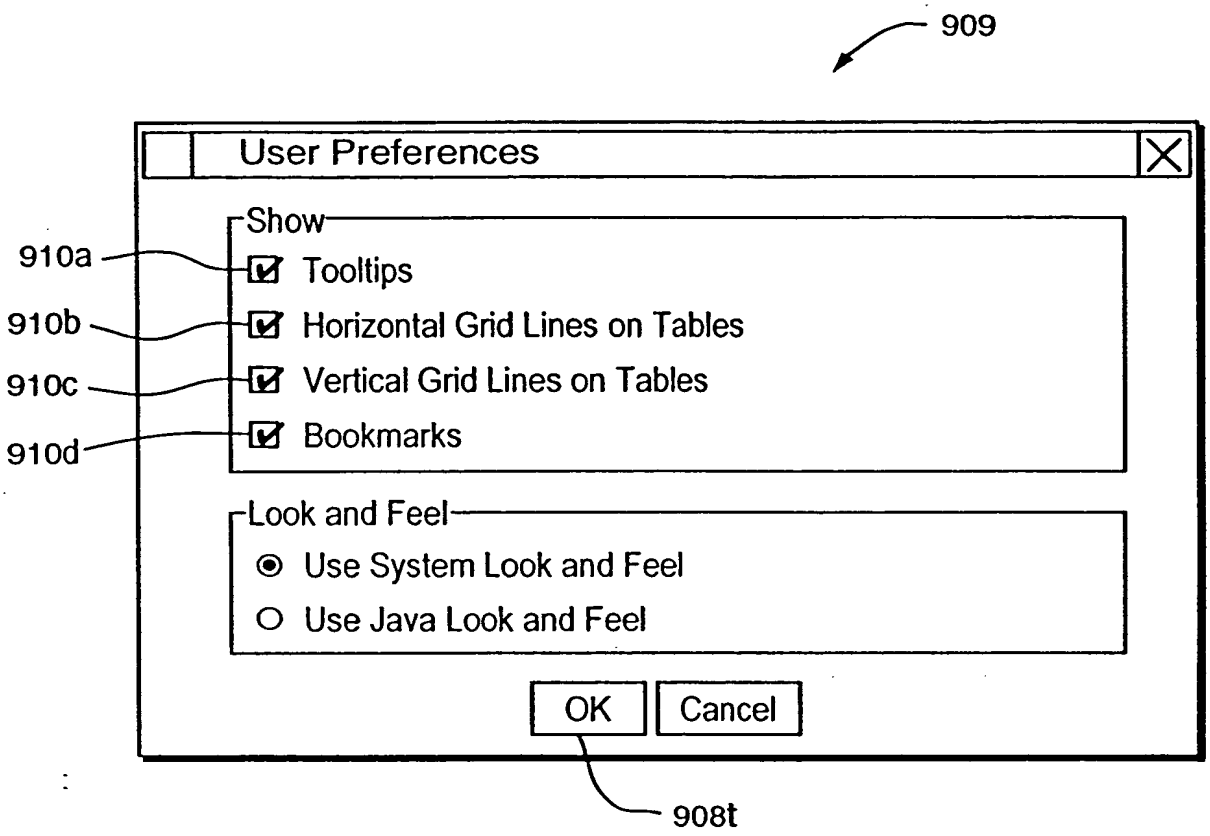

909
User Preferences
Show
910a
Tooltips
910b
Horizontal Grid Lines on Tables
910c
Vertical Grid Lines on Tables
910d
Bookmarks
Look and Feel
Use System Look and Feel
Use Java Look and Feel
OK
Cancel
908t

FIG. 11H

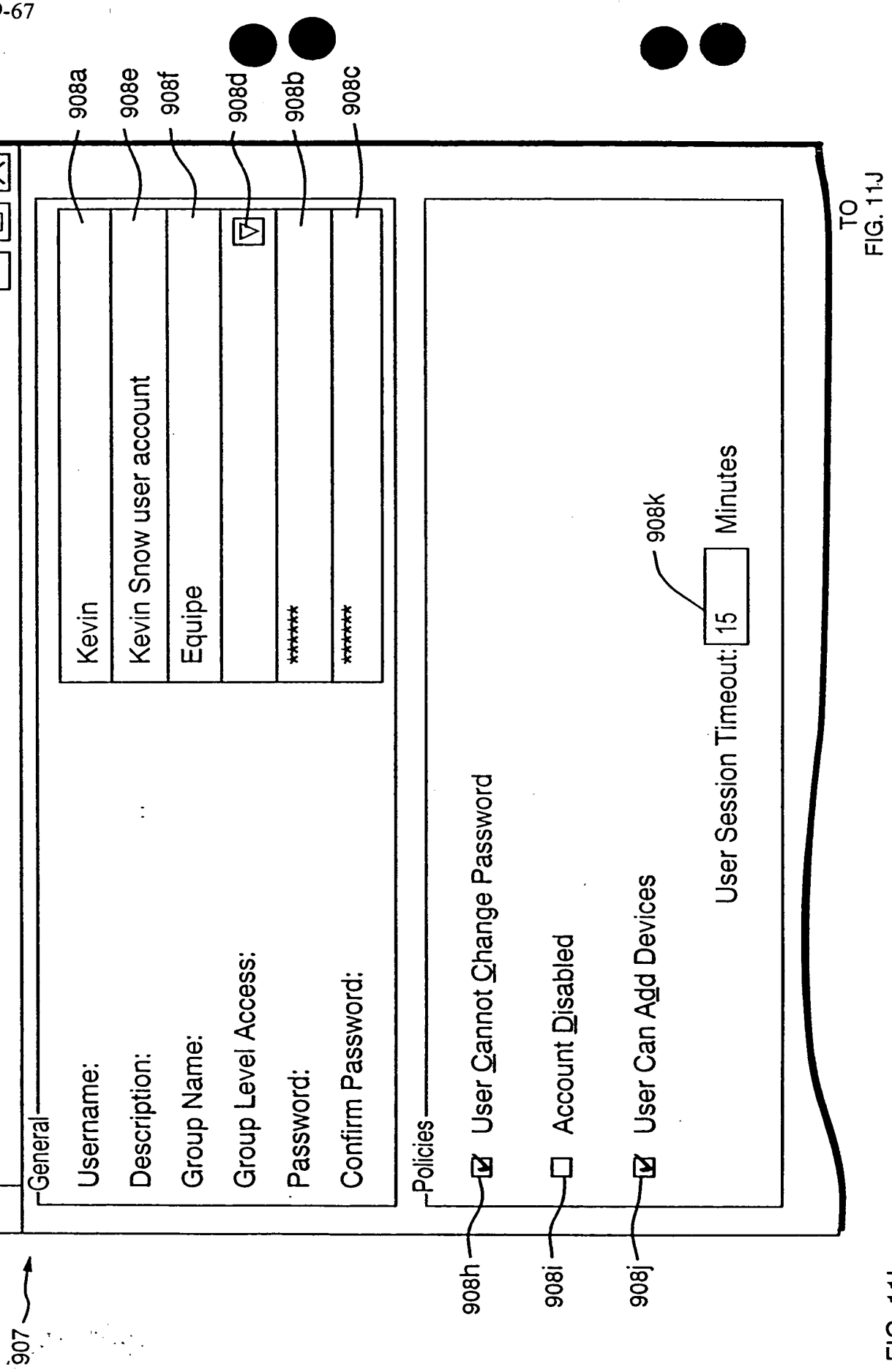

907
General
Username:
Kevin
908a
Description:
Kevin Snow user account
908e
Group Name:
Equipe
908f
Group Level Access:
908d
Password:
******
908b
Confirm Password:
******
908c
Policies
User Cannot Change Password
908h
Account Disabled
908i
User Can Add Devices
908j
User Session Timeout:
15
908k
Minutes
TO
FIG. 11J

FIG. 11I

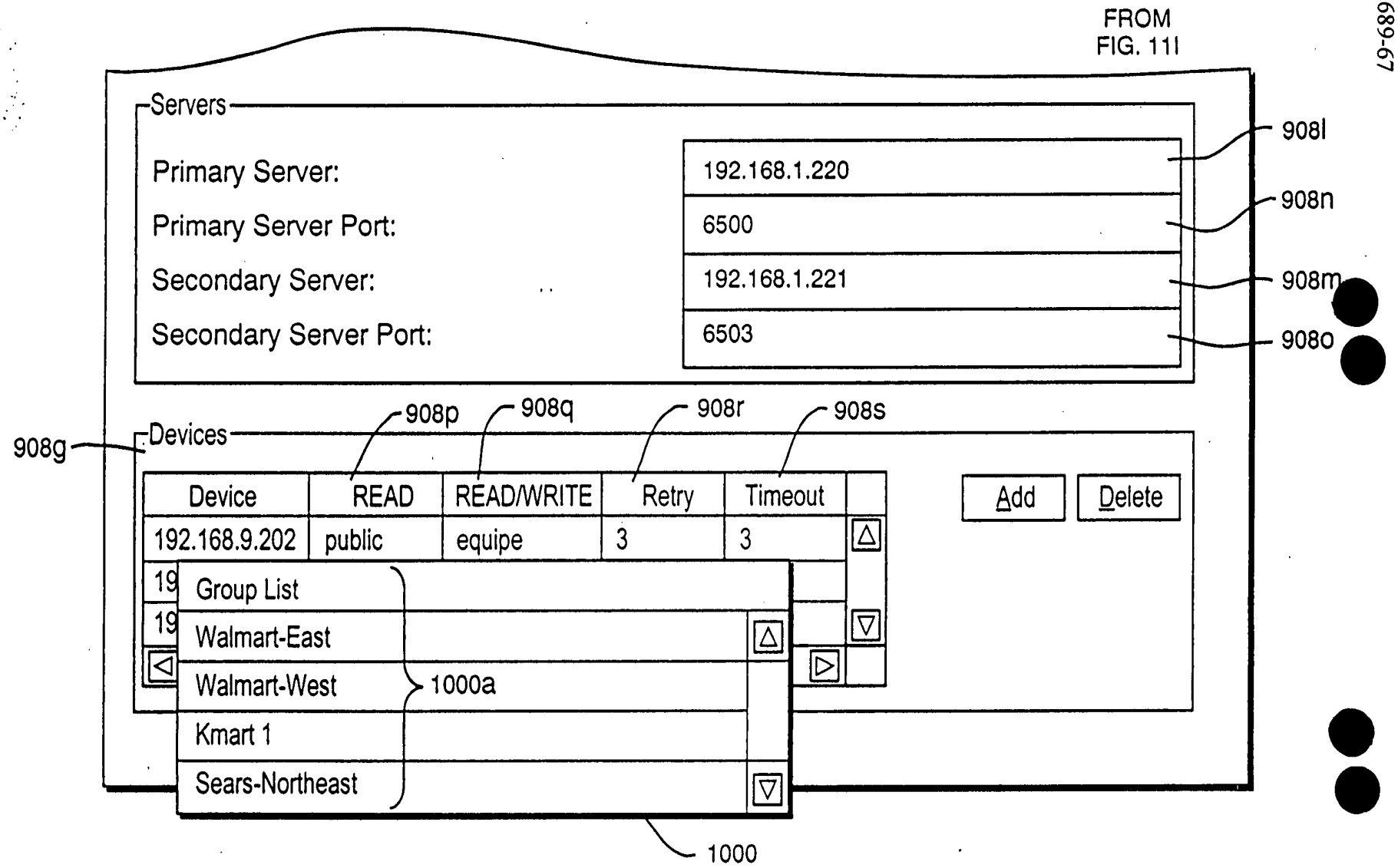

FROM
FIG. 11I
Servers
Primary Server:
192.168.1.220
Primary Server Port:
6500
Secondary Server:
192.168.1.221
Secondary Server Port:
6503
908l
908n
908m
908o
908g
Devices
908p
908q
908r
908s
Device
READ
READ/WRITE
Retry
Timeout
192.168.9.202
public
equipe
3
3
Add
Delete
Group List
Walmart-East
Walmart-West
Kmart 1
Sears-Northeast
1000a
1000

FIG. 11J

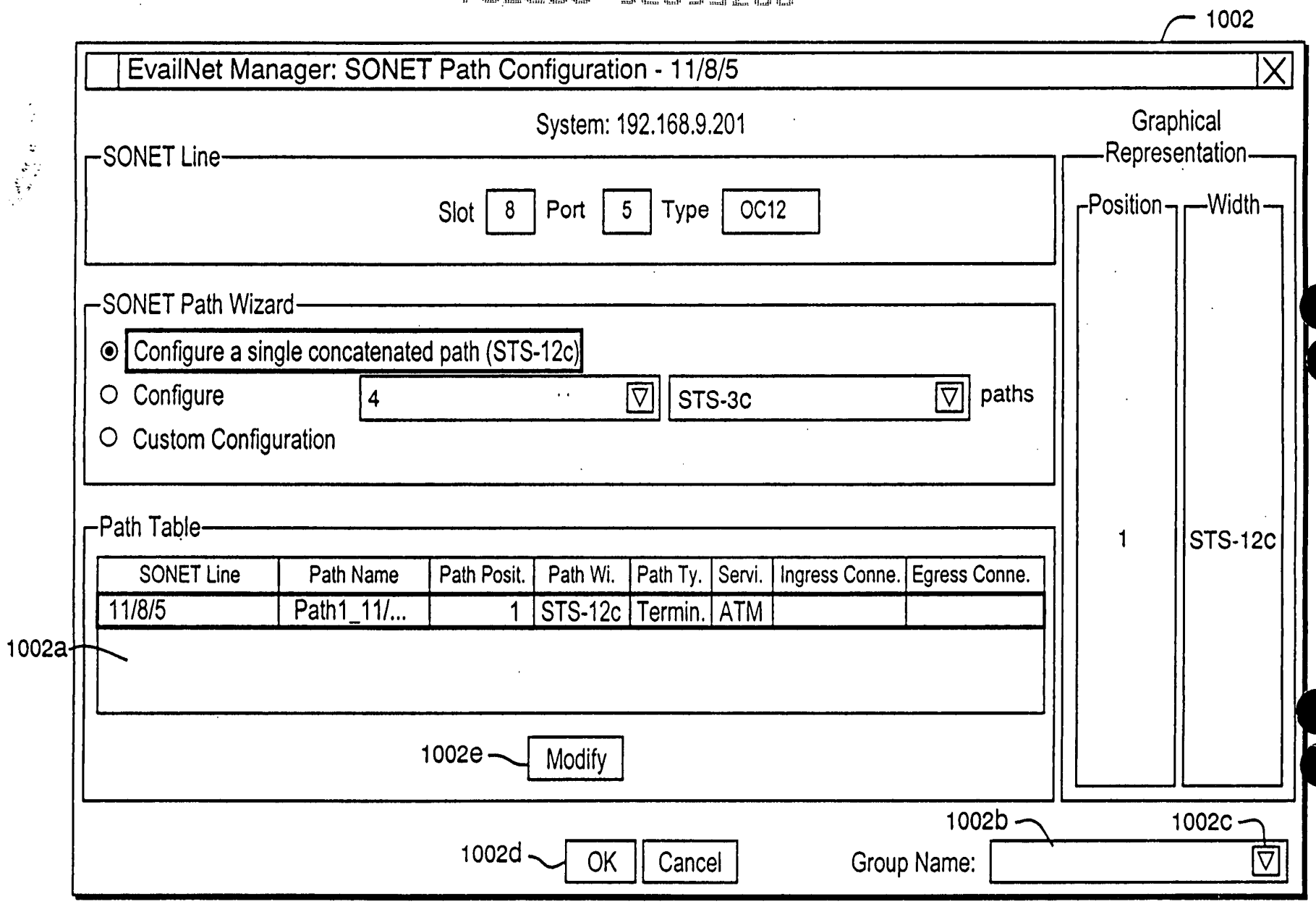


FIG. 11K

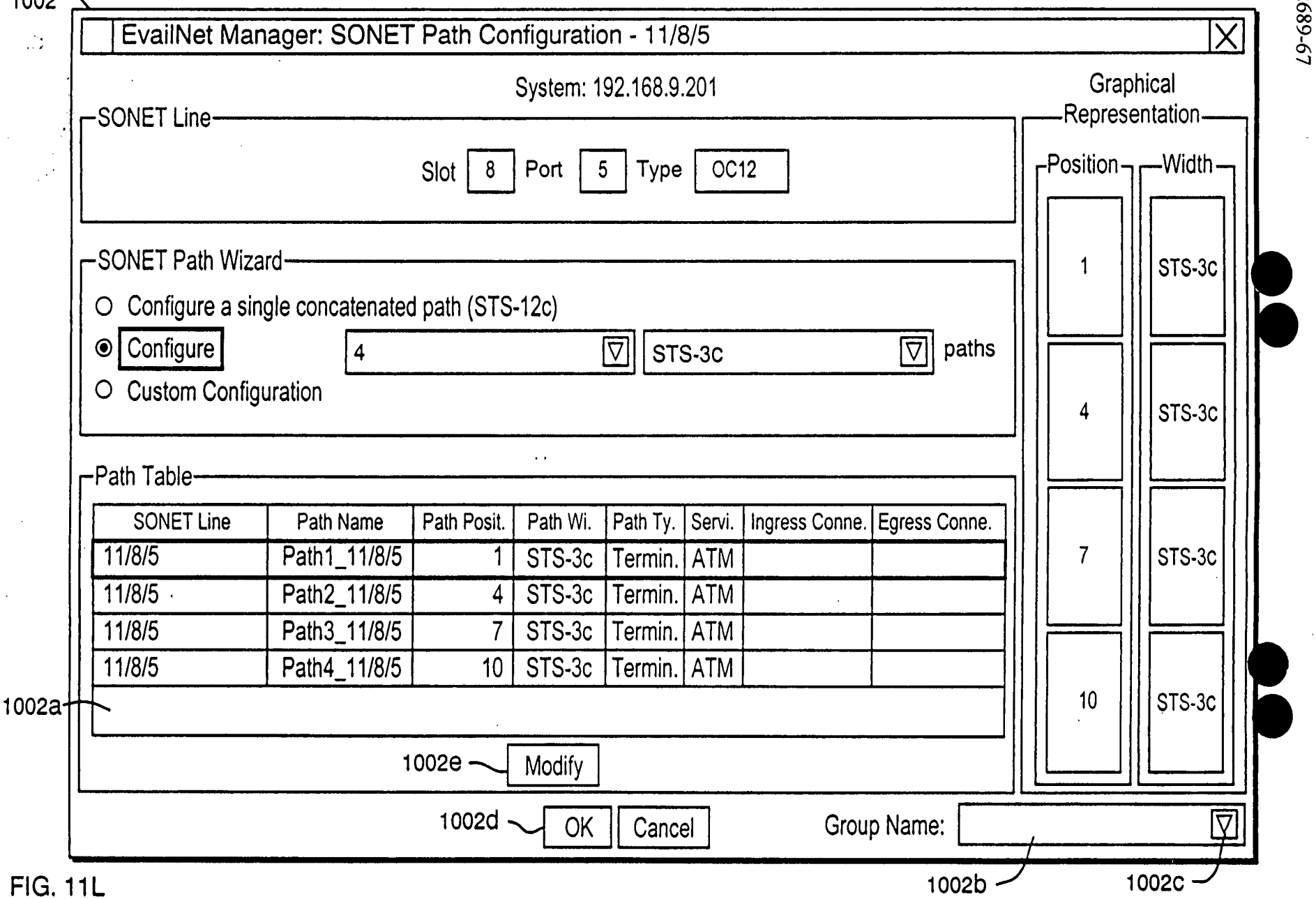


FIG. 11L

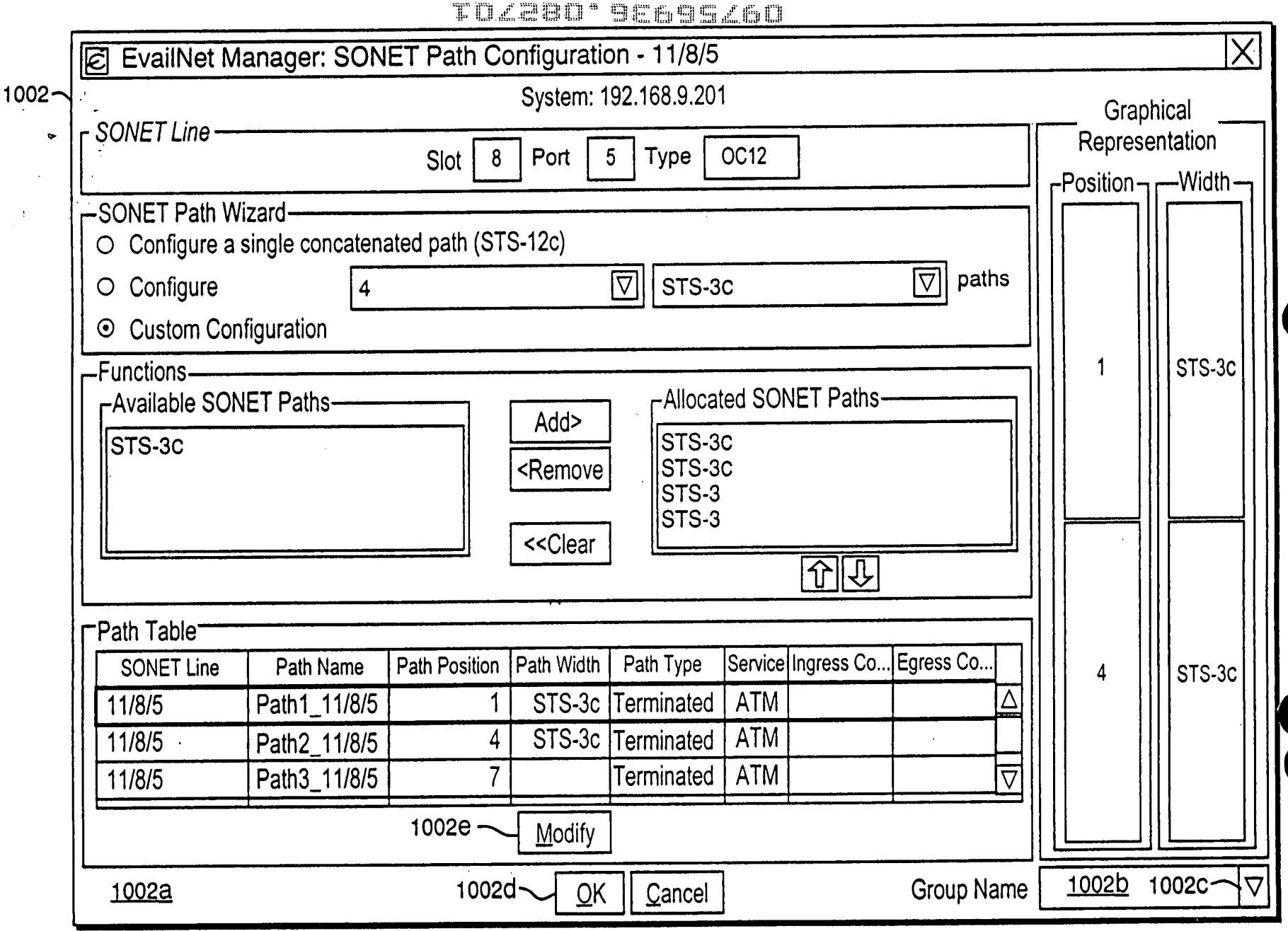

EvailNet Manager: SONET Path Configuration - 11/8/5
1002
System: 192.168.9.201
SONET Line
Slot 8 Port 5 Type OC12
SONET Path Wizard
Configure a single concatenated path (STS-12c)
Configure 4 STS-3c paths
Custom Configuration
Functions
Available SONET Paths
STS-3c
Add>
<Remove
<<Clear
Allocated SONET Paths
STS-3c
STS-3c
STS-3
STS-3
Graphical Representation
Position
Width
1
STS-3c
4
STS-3c
Path Table
SONET Line | Path Name | Path Position | Path Width | Path Type | Service | Ingress Co... | Egress Co...
11/8/5 | Path1_11/8/5 | 1 | STS-3c | Terminated | ATM
11/8/5 | Path2_11/8/5 | 4 | STS-3c | Terminated | ATM
11/8/5 | Path3_11/8/5 | 7 | | Terminated | ATM
1002e
Modify
1002a
1002d
OK
Cancel
Group Name
1002b
1002c

FIG. 11M

MANAGED RESOURCE GROUP TABLE 1008

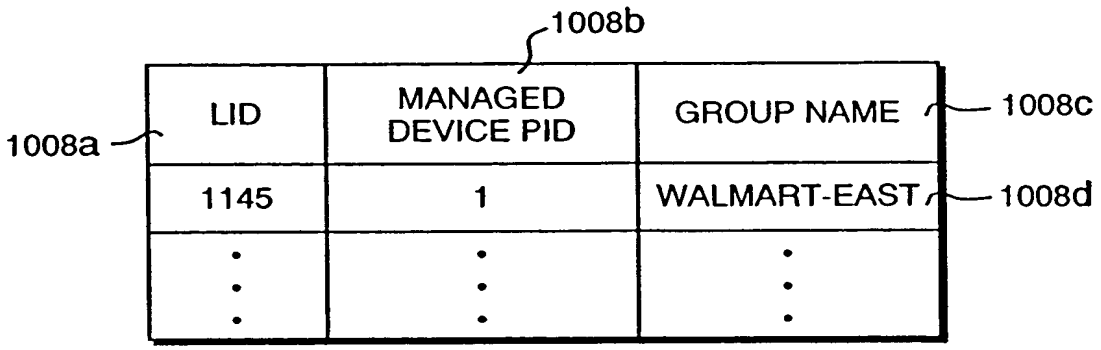


FIG. 11N

MANAGED RESOURCE TABLE 1007

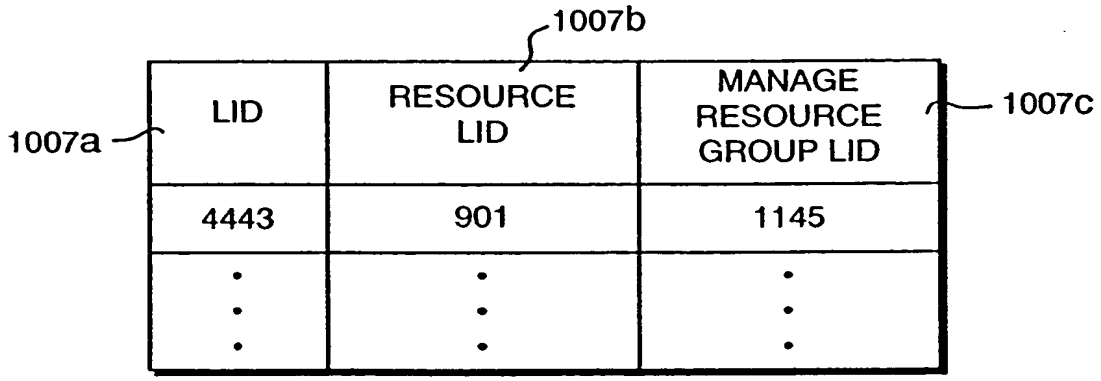


FIG. 11O

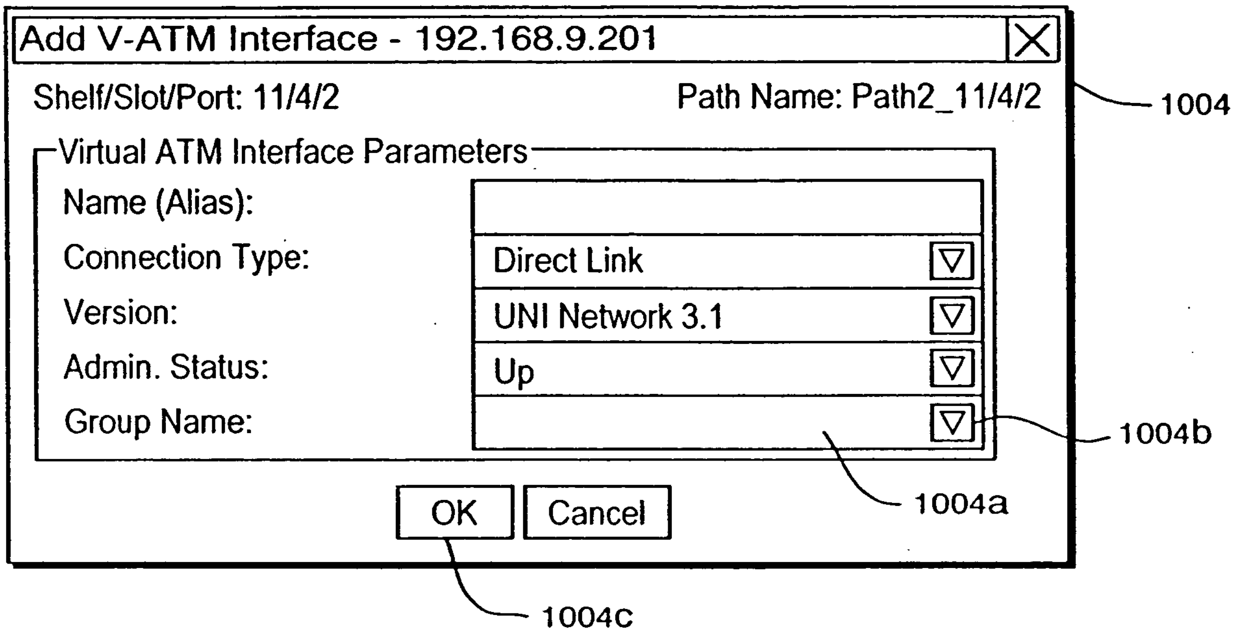


FIG. 11P

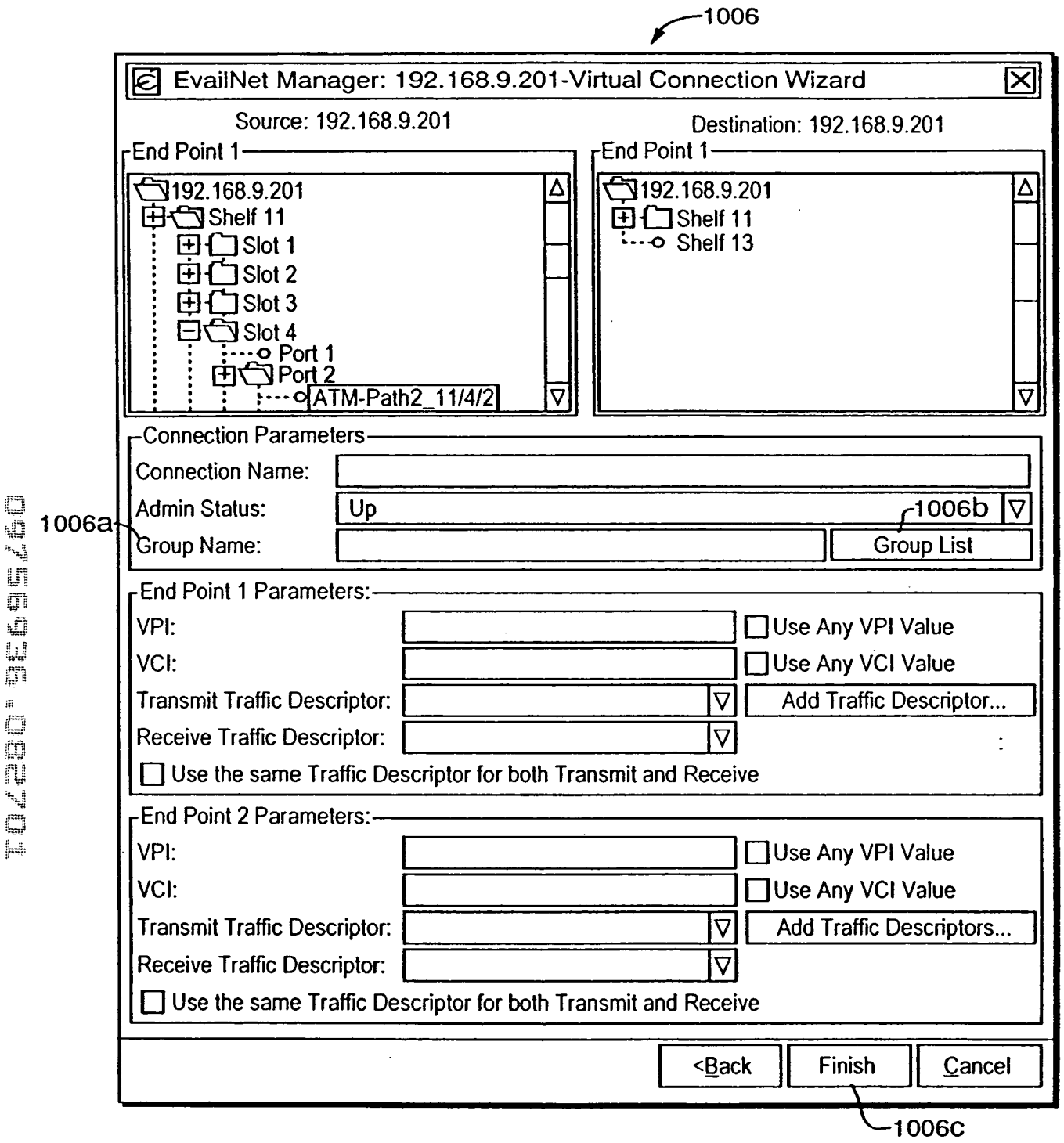

1006
EvailNet Manager: 192.168.9.201-Virtual Connection Wizard
Source: 192.168.9.201
Destination: 192.168.9.201
End Point 1
192.168.9.201
Shelf 11
Slot 1
Slot 2
Slot 3
Slot 4
Port 1
Port 2
ATM-Path2_11/4/2
End Point 1
192.168.9.201
Shelf 11
Shelf 13
Connection Parameters
Connection Name:
Admin Status:
Up
1006b
1006a
Group Name:
Group List
End Point 1 Parameters:
VPI:
Use Any VPI Value
VCI:
Use Any VCI Value
Transmit Traffic Descriptor:
Add Traffic Descriptor...
Receive Traffic Descriptor:
Use the same Traffic Descriptor for both Transmit and Receive
End Point 2 Parameters:
VPI:
Use Any VPI Value
VCI:
Use Any VCI Value
Transmit Traffic Descriptor:
Add Traffic Descriptors...
Receive Traffic Descriptor:
Use the same Traffic Descriptor for both Transmit and Receive
<Back
Finish
Cancel
1006c

FIG. 11Q

USER TABLE 1010

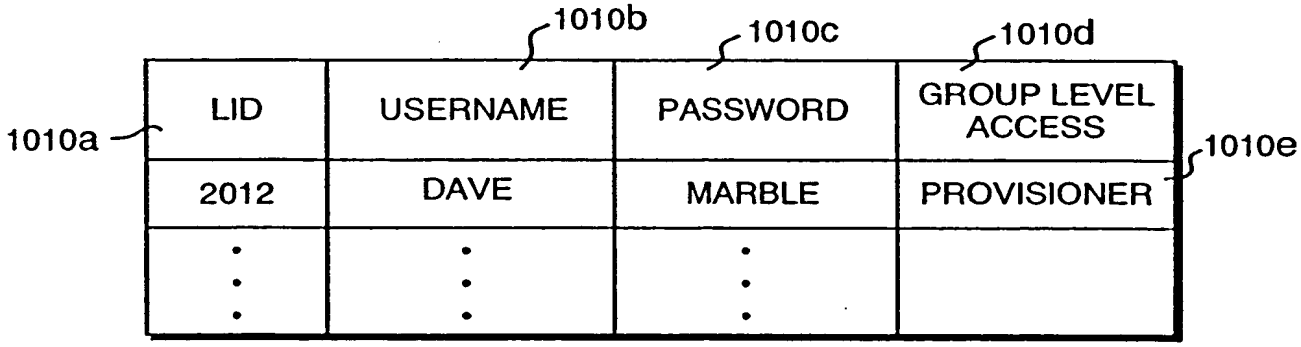


FIG. 11R

USER MANAGED DEVICE TABLE 1012

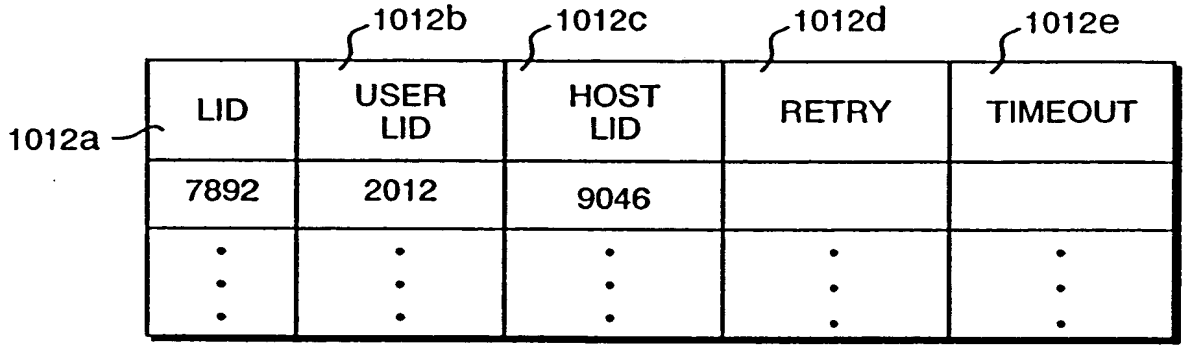


FIG. 11S

ADMINISTRATION MANAGED DEVICE TABLE 1014

1014a LID	1014b HOST ADDRESS	1014e PORT ADDRESS	RETRY	TIMEOUT	ADMIN. PASSWORD	1014d PROV. PASSWORD	VIEWER PASSWORD
1014c 9046	192.168.9.202	1521			TEAM 1	TEAM 2	TEAM 3
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•
•	•	•	•	•	•	•	•

FIG. 11T

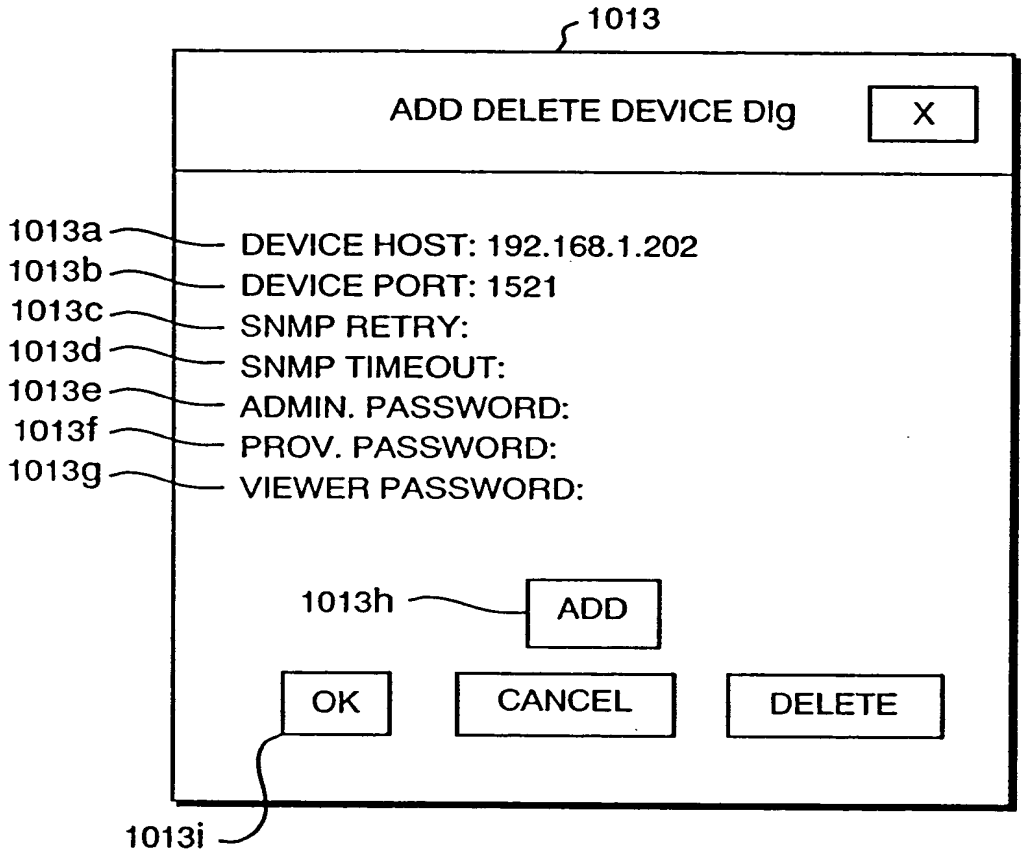

1013
ADD DELETE DEVICE Dlg
X
1013a
DEVICE HOST: 192.168.1.202
1013b
DEVICE PORT: 1521
1013c
SNMP RETRY:
1013d
SNMP TIMEOUT:
1013e
ADMIN. PASSWORD:
1013f
PROV. PASSWORD:
1013g
VIEWER PASSWORD:
1013h
ADD
OK
CANCEL
DELETE
1013i

FIG. 11U

USER RESOURCE GROUP MAP TABLE 1016

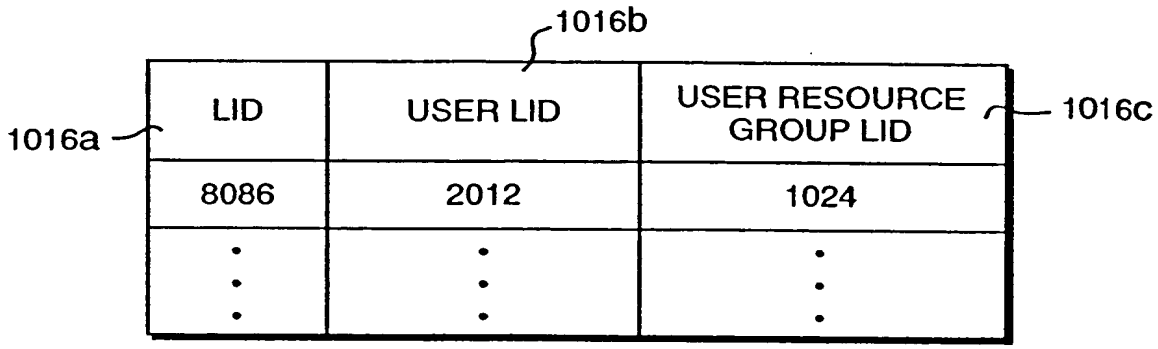


FIG. 11V

USER RESOURCE GROUP TABLE 1018

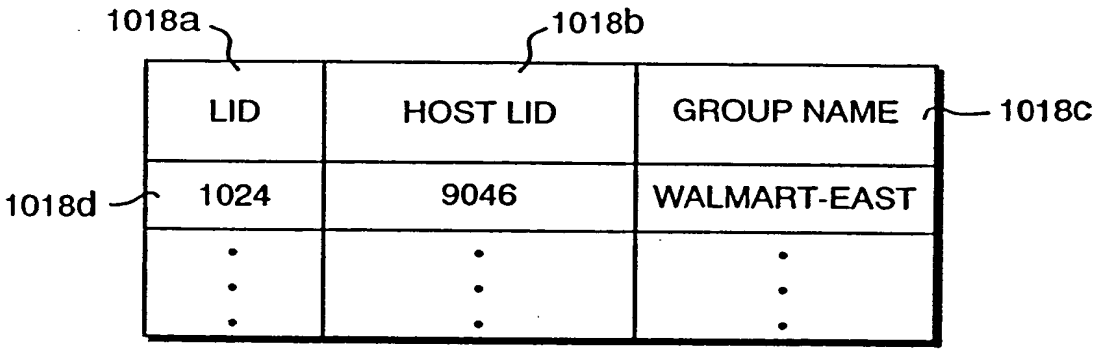


FIG. 11W

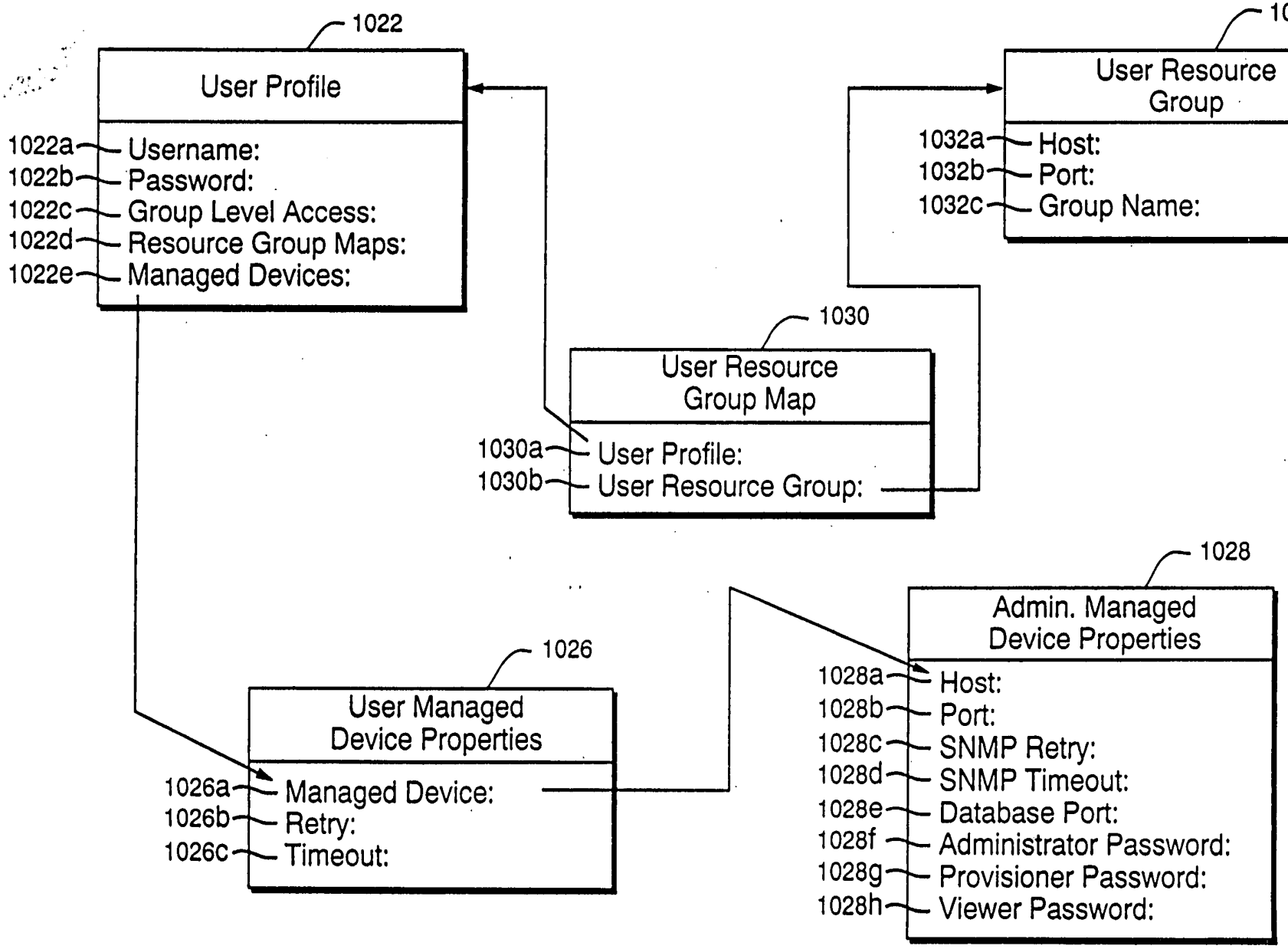

1022
User Profile
1022a Username:
1022b Password:
1022c Group Level Access:
1022d Resource Group Maps:
1022e Managed Devices:
1032
User Resource Group
1032a Host:
1032b Port:
1032c Group Name:
1030
User Resource Group Map
1030a User Profile:
1030b User Resource Group:
1028
Admin. Managed Device Properties
1028a Host:
1028b Port:
1028c SNMP Retry:
1028d SNMP Timeout:
1028e Database Port:
1028f Administrator Password:
1028g Provisioner Password:
1028h Viewer Password:
1026
User Managed Device Properties
1026a Managed Device:
1026b Retry:
1026c Timeout:

FIG. 11X

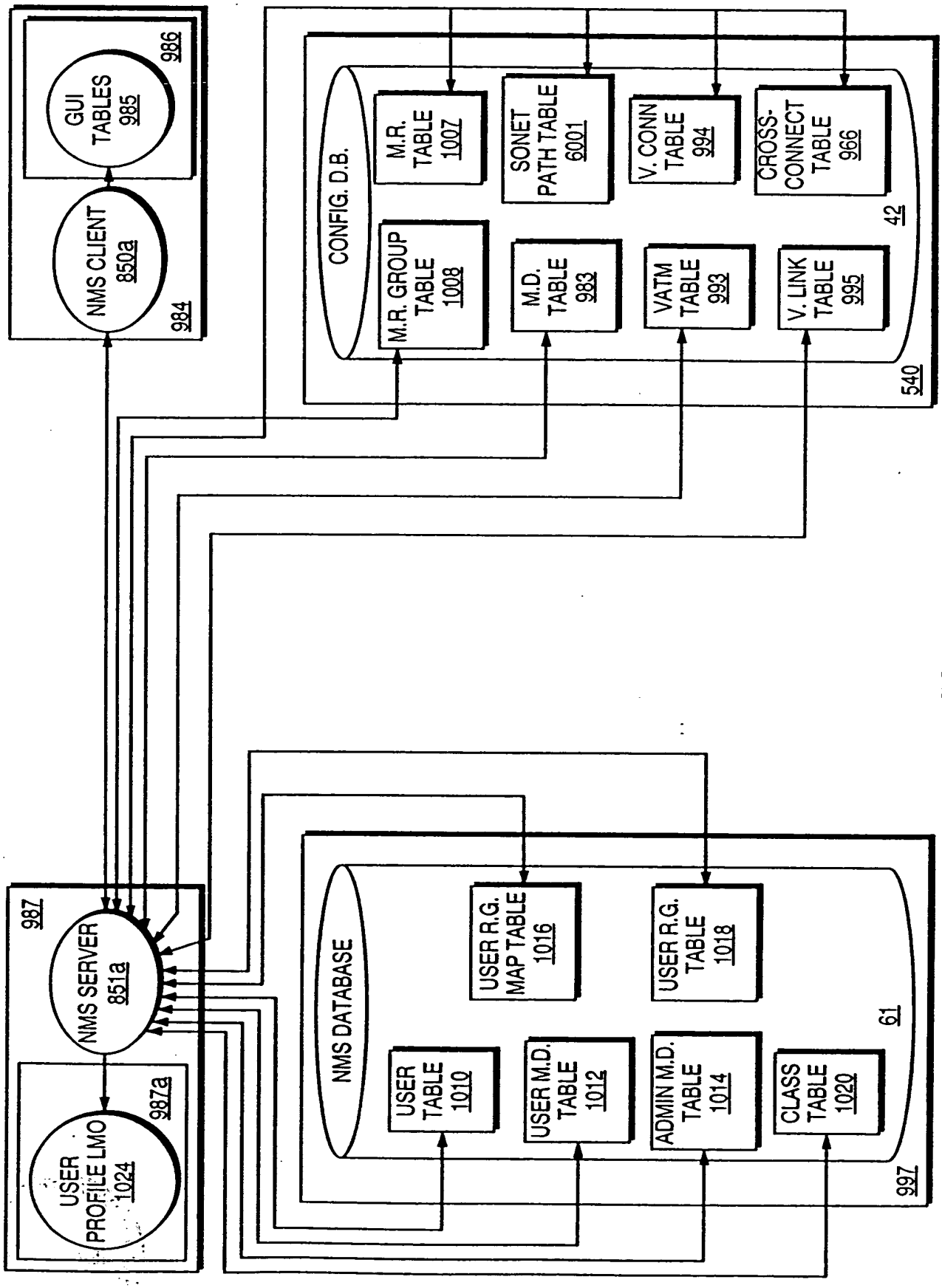

GUI TABLES 985
986
NMS CLIENT 850a
984
CONFIG. D.B.
M.R. TABLE 1007
SONET PATH TABLE 6001
V. CONN TABLE 994
CROSS-CONNECT TABLE 966
M.R. GROUP TABLE 1008
M.D. TABLE 983
VATM TABLE 993
V. LINK TABLE 995
42
540
987
NMS SERVER 851a
USER PROFILE LMO 1024
987a
NMS DATABASE
USER R.G. MAP TABLE 1016
USER R.G. TABLE 1018
USER TABLE 1010
USER M.D. TABLE 1012
ADMIN M.D. TABLE 1014
CLASS TABLE 1020
61
997

FIG. 11Y

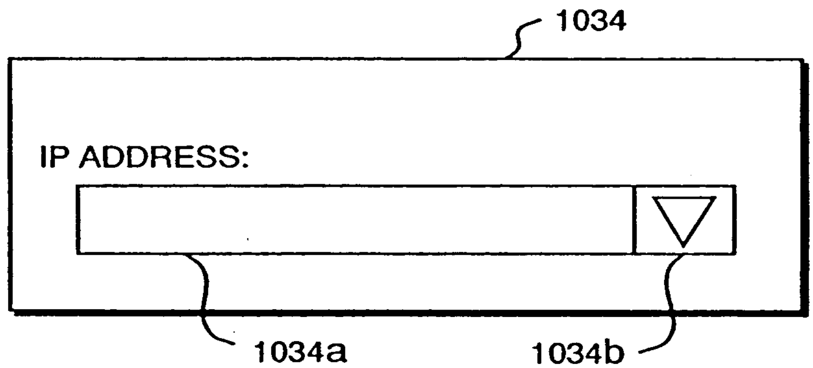


FIG. 11Z

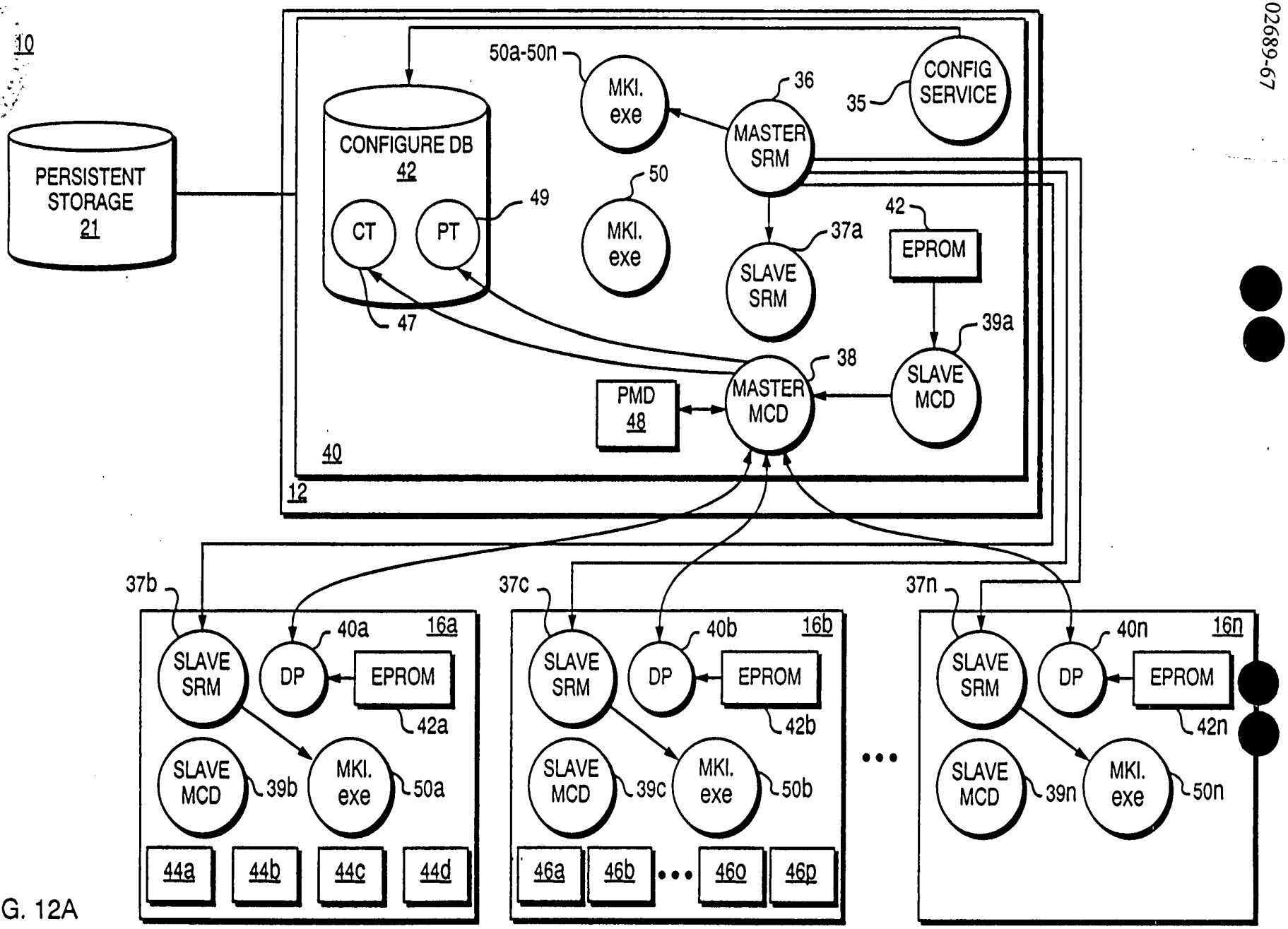


FIG. 12A

CARD TABLE 47

	PID	CWD TYPE	VERSION NO.	SLOT NO.	...
16a	500	0XF002	3	1	
16b	501	0XF002	4	2	
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
16e	505	0X6002	1	5	
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•
16n	513	0XF002	1	12	
	•	•	•	•	•
	•	•	•	•	•
	•	•	•	•	•

FIG. 12B

PORT TABLE 49

	PID	PORT TYPE	VERSION NO.	SLOT NO.	...
44a	1500	00620	1	1	
44b	1501	00620	1	1	
44c	1502	00620	1	1	
44d	1503	00620	1	1	
44a	1504	00820			
46a	⋮	⋮	⋮	⋮	⋮
	1600	OO620	1	8	
	⋮	⋮	⋮	⋮	⋮

FIG. 12C

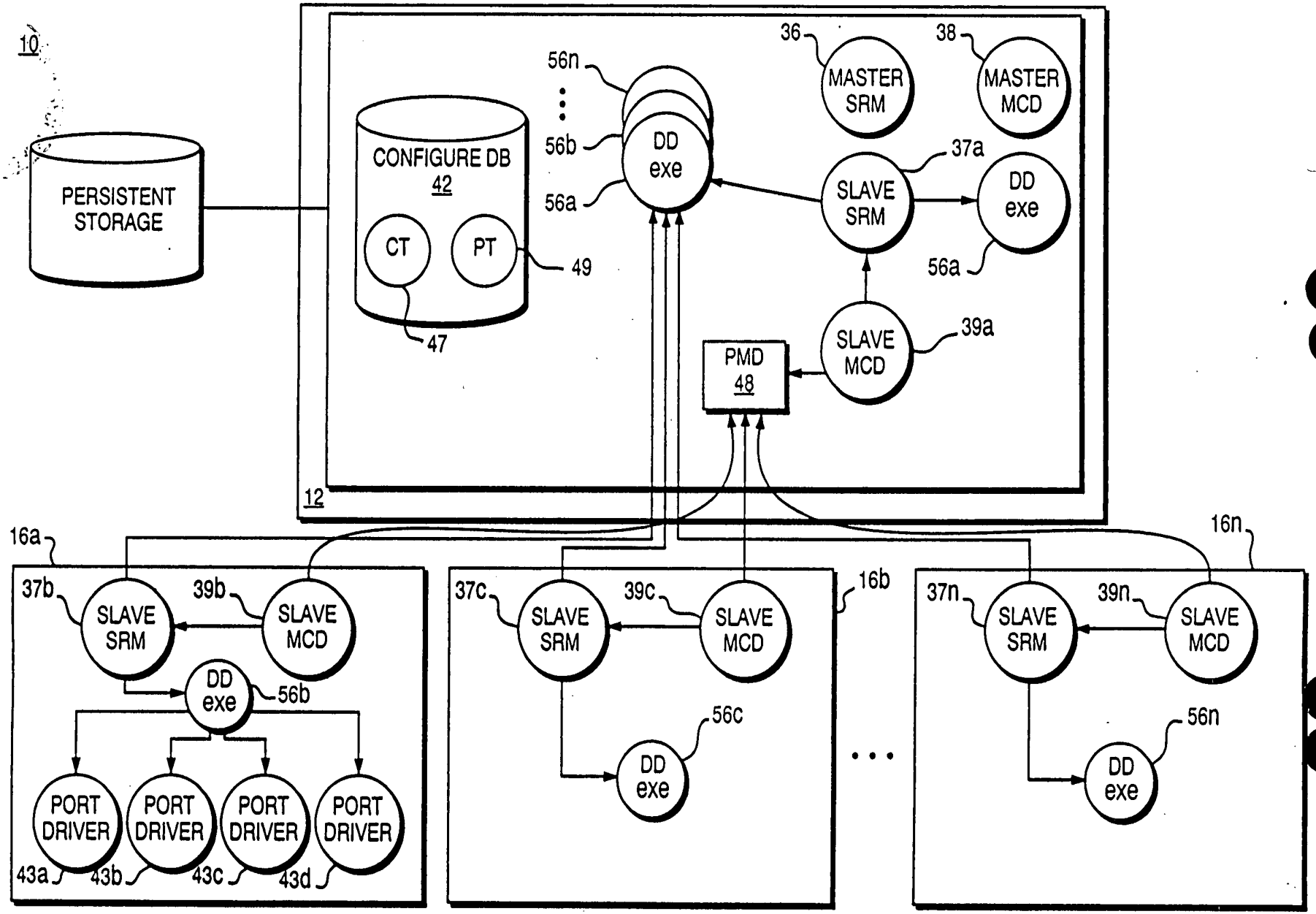


FIG. 13A

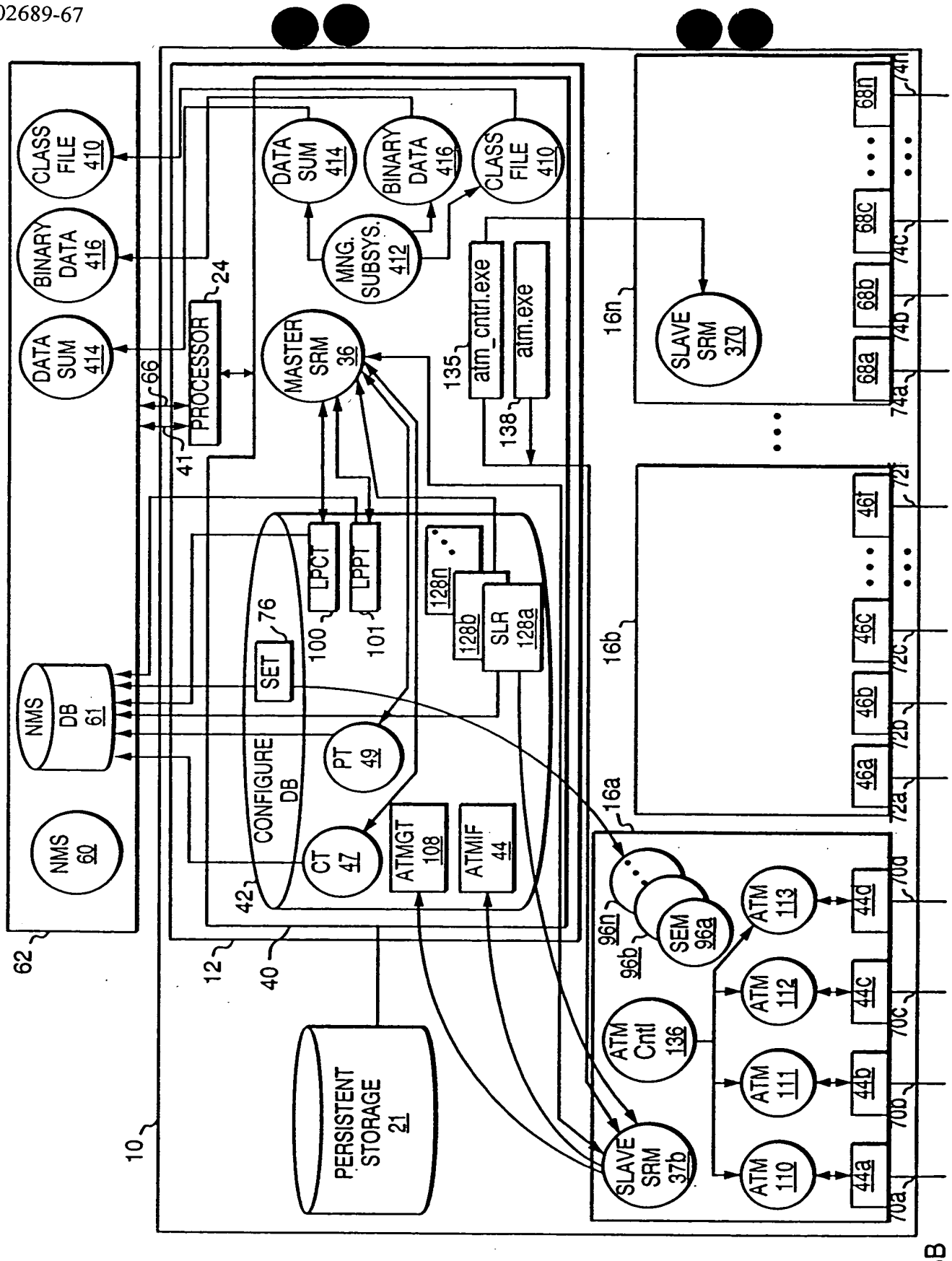

CLASS FILE 410
BINARY DATA 416
DATA SUM 414
NMS DB 61
NMS 60
62
12
40
10
PROCESSOR 24
41
66
DATA SUM 414
BINARY DATA 416
CLASS FILE 410
MNG. SUBSYS. 412
MASTER SRM 36
135
atm_cntrl.exe
atm.exe
138
16n
SLAVE SRM 37O
68a
68b
68c
68n
74a
74b
74c
74n
16b
46a
46b
46c
46f
72a
72b
72c
72f
CONFIGURE DB
42
SET 76
LPCT 100
LPPT 101
128n
128b
SLR 128a
PT 49
CT 47
ATMGT 108
ATMIF 44
PERSISTENT STORAGE 21
16a
SLAVE SRM 37b
ATM Cntl 136
96n
96b
SEM 96a
ATM 110
ATM 111
ATM 112
ATM 113
44a
44b
44c
44d
70a
70b
70c
70d

FIG. 13B

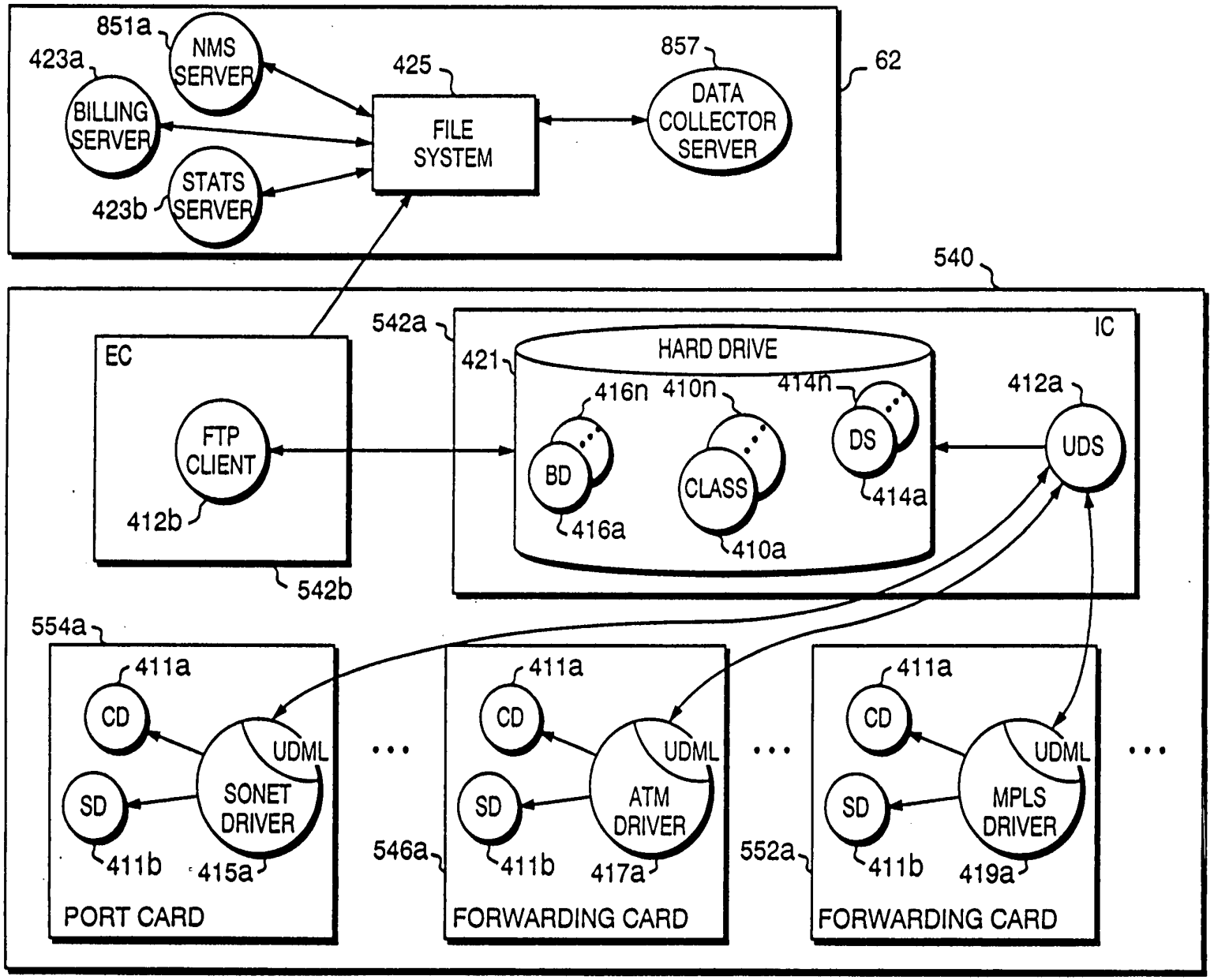


FIG. 13C

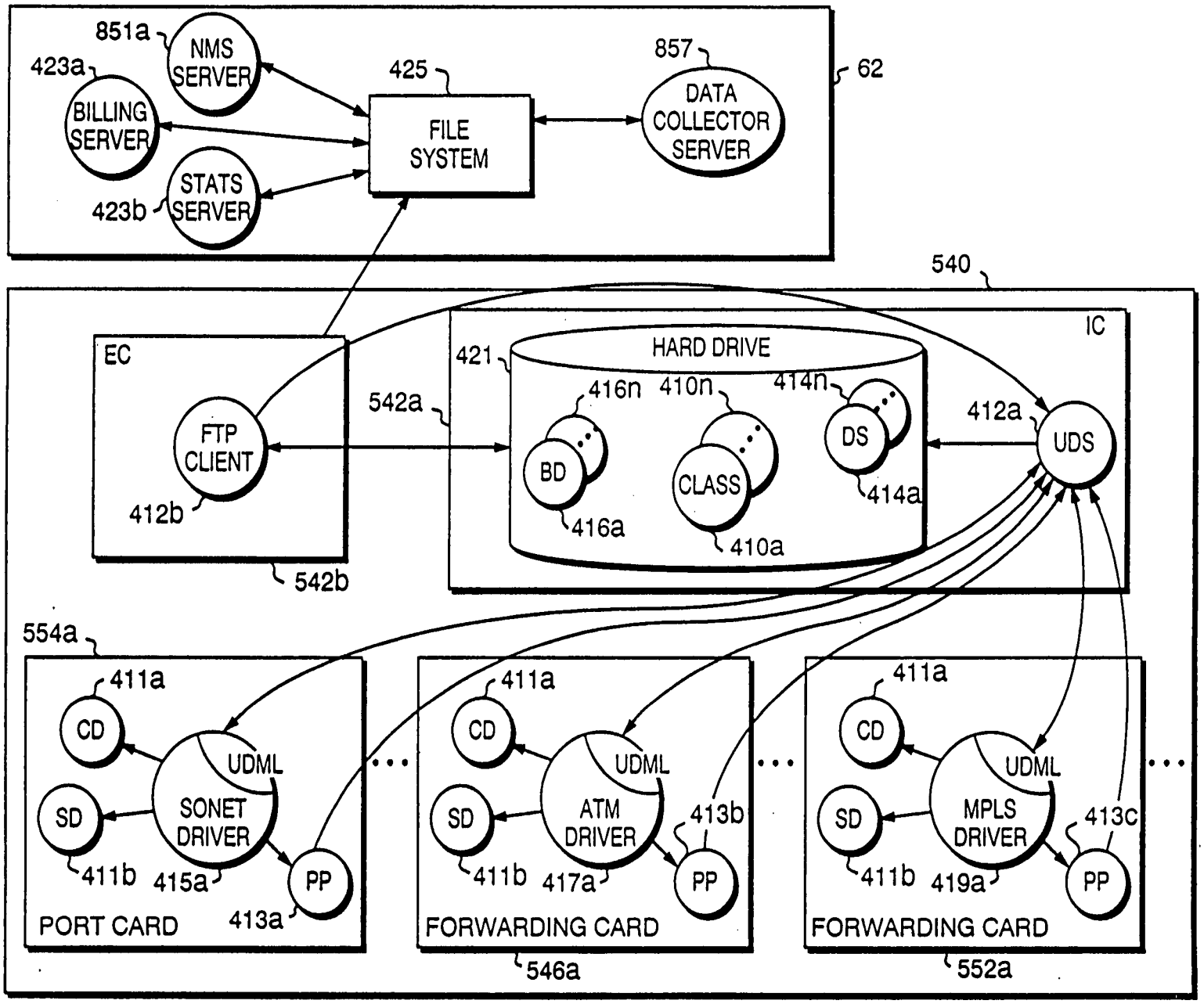


FIG. 13D

SERVICE ENDPOINT TABLE 76

	SERVICE ENDPOINT #	PORT PID
78	1	1500
80	2	1501
82	3	1501
84	4	1501
86	5	1502
88	6	1502
90	7	1503
92	8	1503
94	9	1503
168	10	1502
	⋮	⋮

FIG. 14A

LOGICAL TO PHYSICAL CARD TABLE 100

	LID (98)	PRIMARY PID (102)	BACK-UP PID (104)
106	30	500	513
109	31	501	513
	⋮	⋮	⋮

FIG. 14B

LOGICAL TO PHYSICAL PORT TABLE 101

	LID (98)	PRIMARY PID (102)	BACK-UP PID (104)
107	40	1500	1600
	⋮	⋮	⋮

FIG. 14C

ATM GROUP TABLE 108

GROUP #	CARD LID	...
1	30	
2	30	
3	30	
4	30	

FIG. 14D

ATM INTERFACE TABLE 114

ATM IF	ATM GROUP	SE	...
1	1	1	
2	1	1	
3	1	1	
4	2	2	
5	2	3	
6	2	4	
•	•	•	•
•	•	•	•
•	•	•	•
12	3	10	
•	•	•	•
•	•	•	•
•	•	•	•

170

FIG. 14E

SOFTWARE LOAD RECORD 128a

130	CONTROL SHIM	LID	132
134	atm-cntl.exe	30	

FIG. 14F

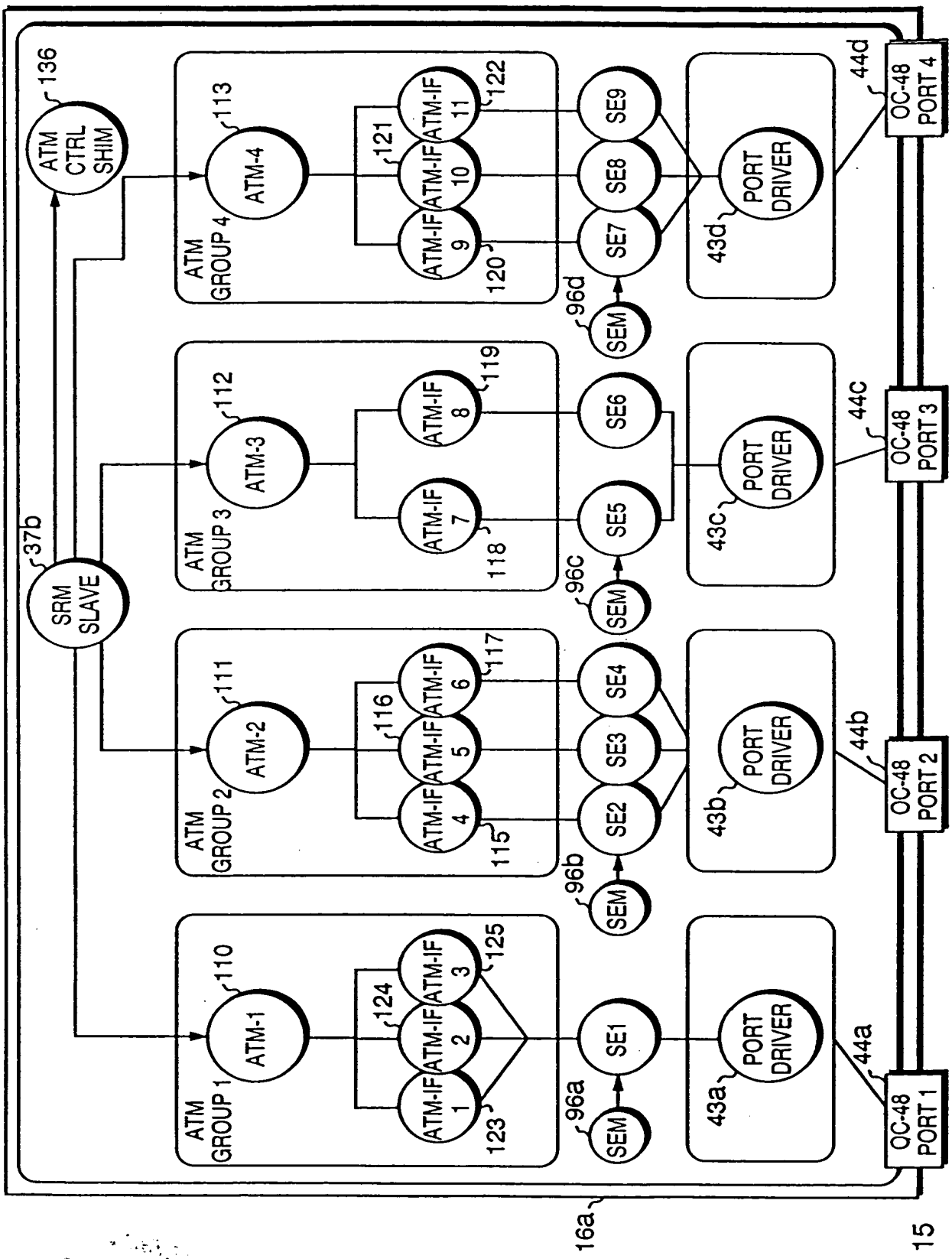

ATM CTRL SHIM
136
SRM SLAVE
37b
ATM GROUP 1
ATM-1
110
ATM-IF 1
ATM-IF 2
ATM-IF 3
123
124
125
SEM
96a
SE1
43a
PORT DRIVER
44a
OC-48 PORT 1
ATM GROUP 2
ATM-2
111
ATM-IF 4
ATM-IF 5
ATM-IF 6
115
116
117
SEM
96b
SE2
SE3
SE4
43b
PORT DRIVER
44b
OC-48 PORT 2
ATM GROUP 3
ATM-3
112
ATM-IF 7
ATM-IF 8
118
119
SEM
96c
SE5
SE6
43c
PORT DRIVER
44c
OC-48 PORT 3
ATM GROUP 4
ATM-4
113
ATM-IF 9
ATM-IF 10
ATM-IF 11
120
121
122
SEM
96d
SE7
SE8
SE9
43d
PORT DRIVER
44d
OC-48 PORT 4
16a

FIG. 15

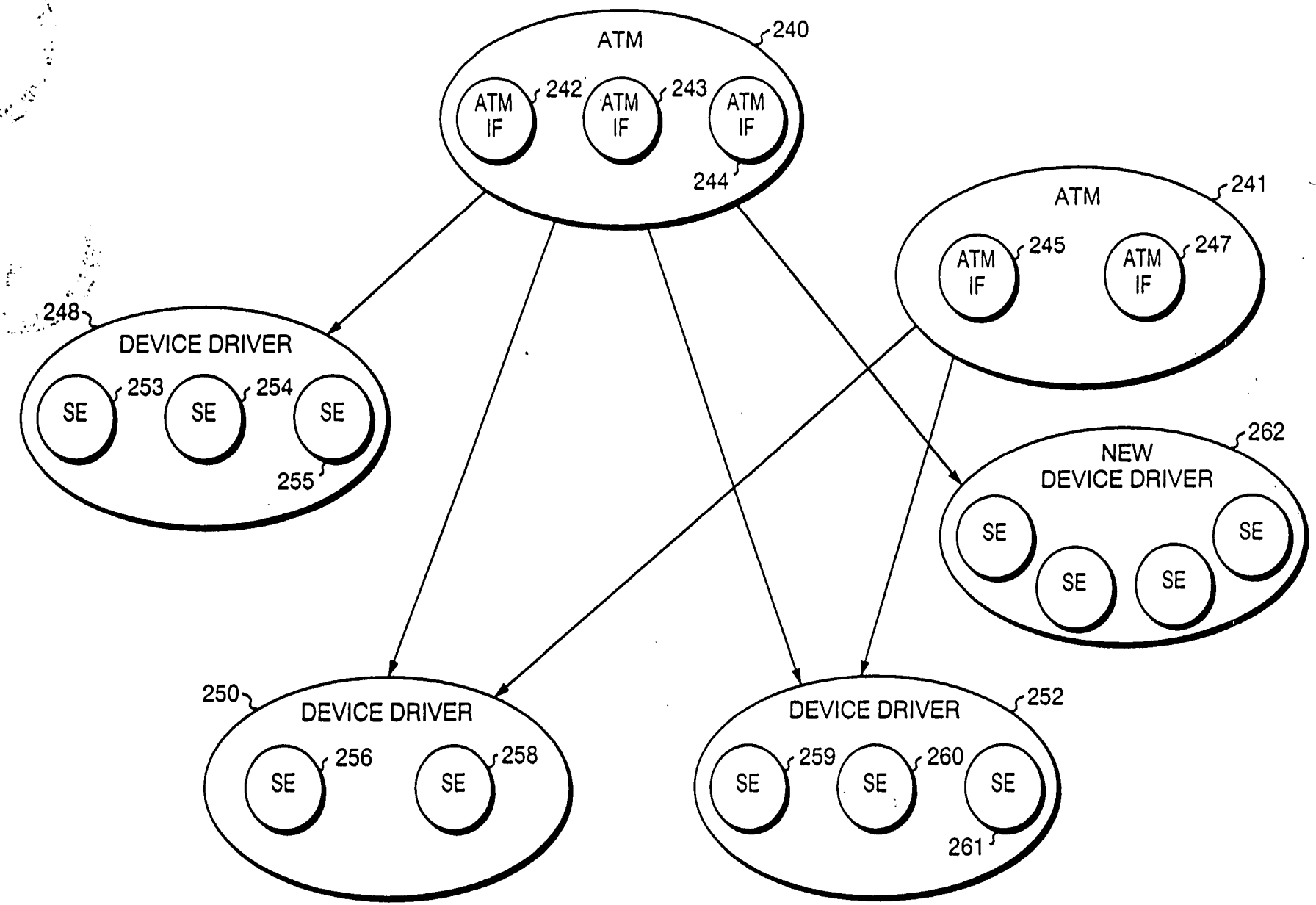


FIG. 16A

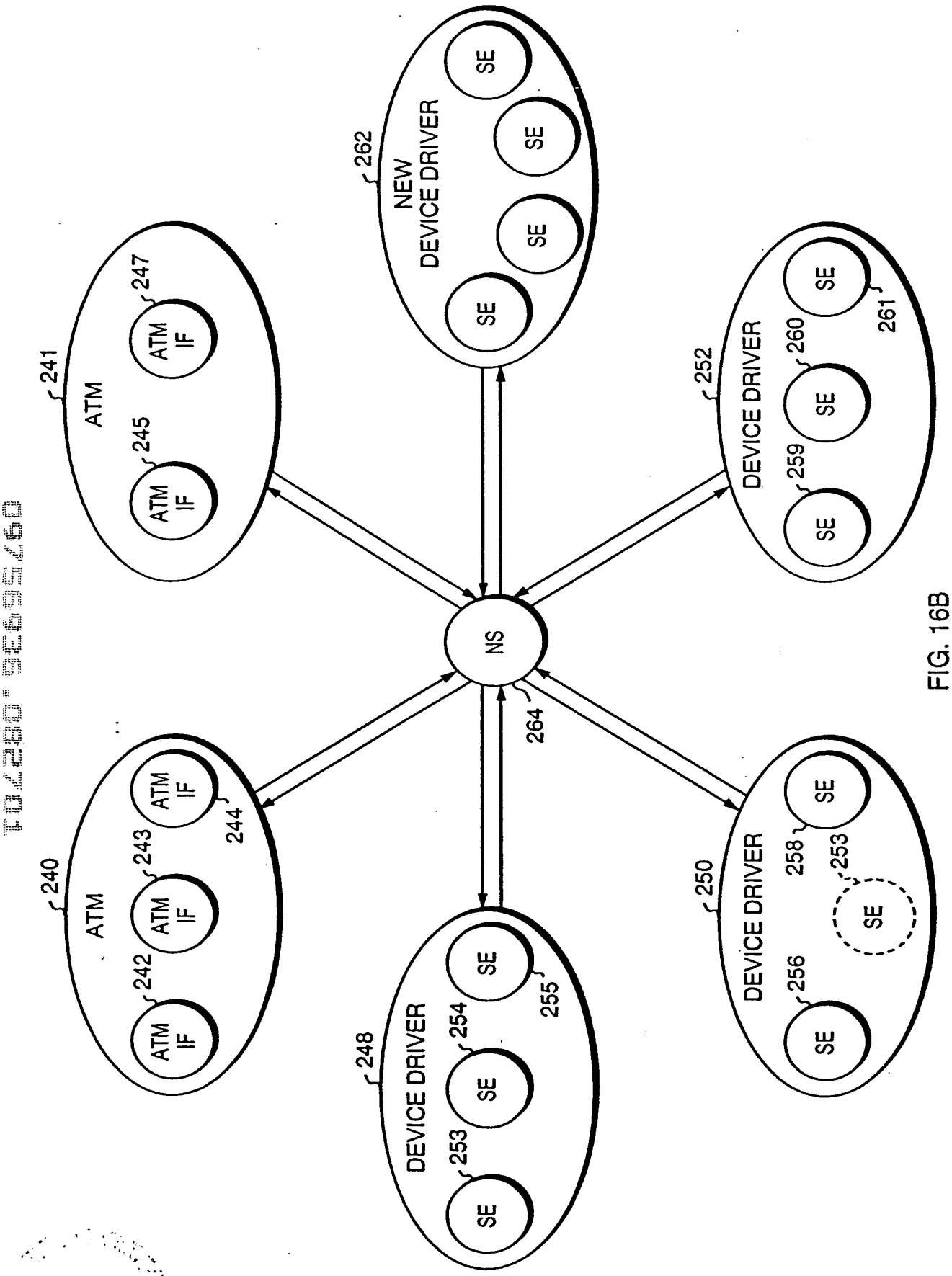

NS
264
ATM
241
ATM IF
245
ATM IF
247
ATM
240
ATM IF
242
ATM IF
243
ATM IF
244
NEW DEVICE DRIVER
262
SE
SE
SE
SE
DEVICE DRIVER
252
SE
259
SE
260
SE
261
DEVICE DRIVER
248
SE
253
SE
254
SE
255
DEVICE DRIVER
250
SE
256
SE
258
SE
253

FIG. 16B

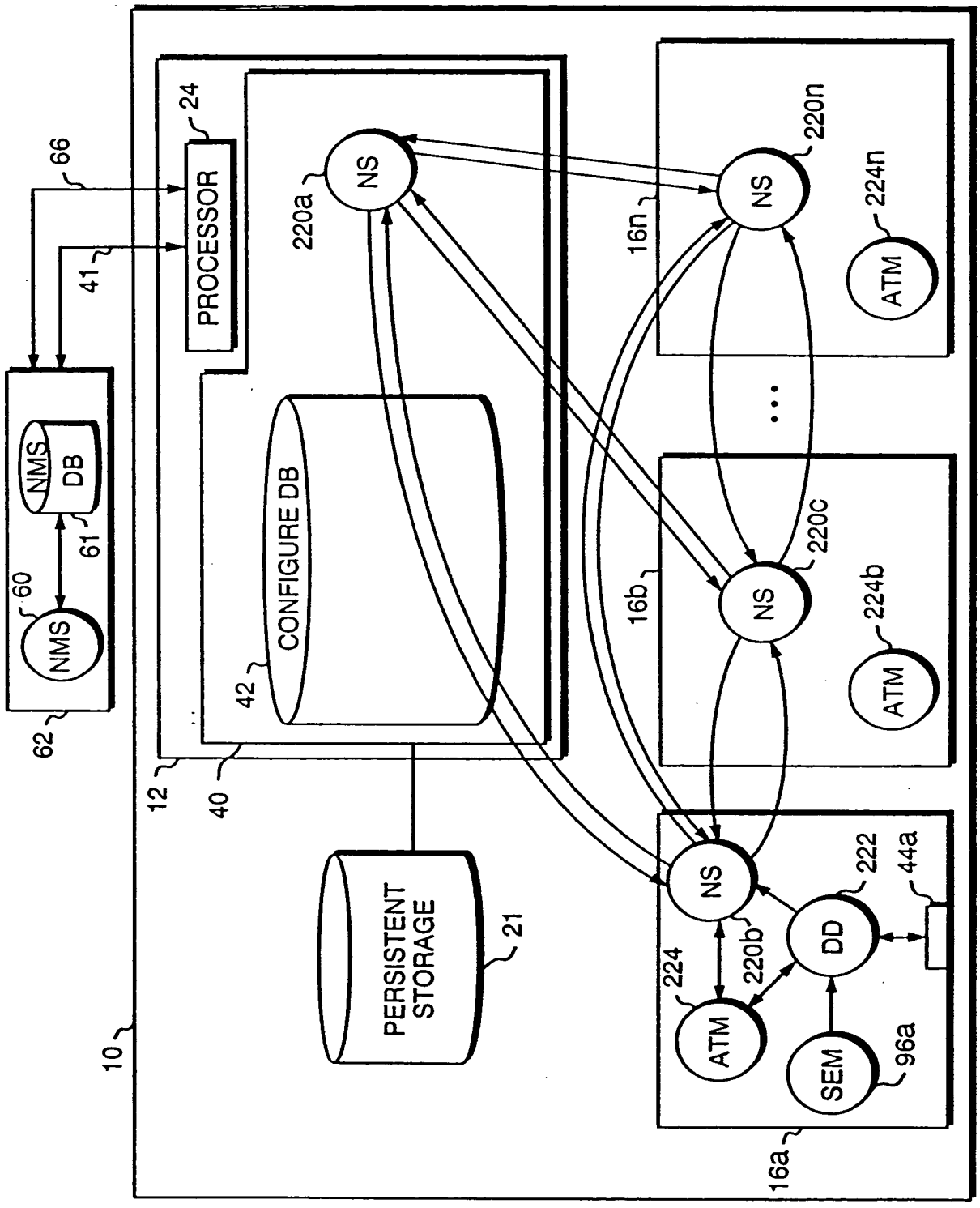

10
12
PROCESSOR
24
66
41
NMS
DB
60
61
62
CONFIGURE DB
42
40
220a
NS
PERSISTENT STORAGE
21
16n
220n
224n
ATM
16b
220c
224b
16a
220b
224
222
44a
DD
SEM
96a

FIG. 16C

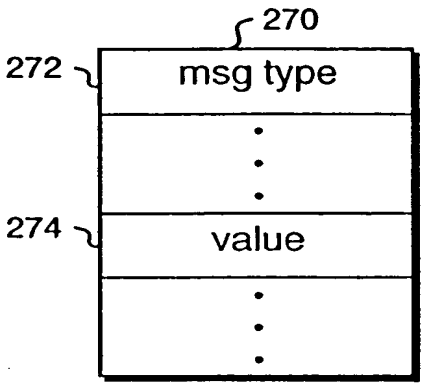


FIG. 16D

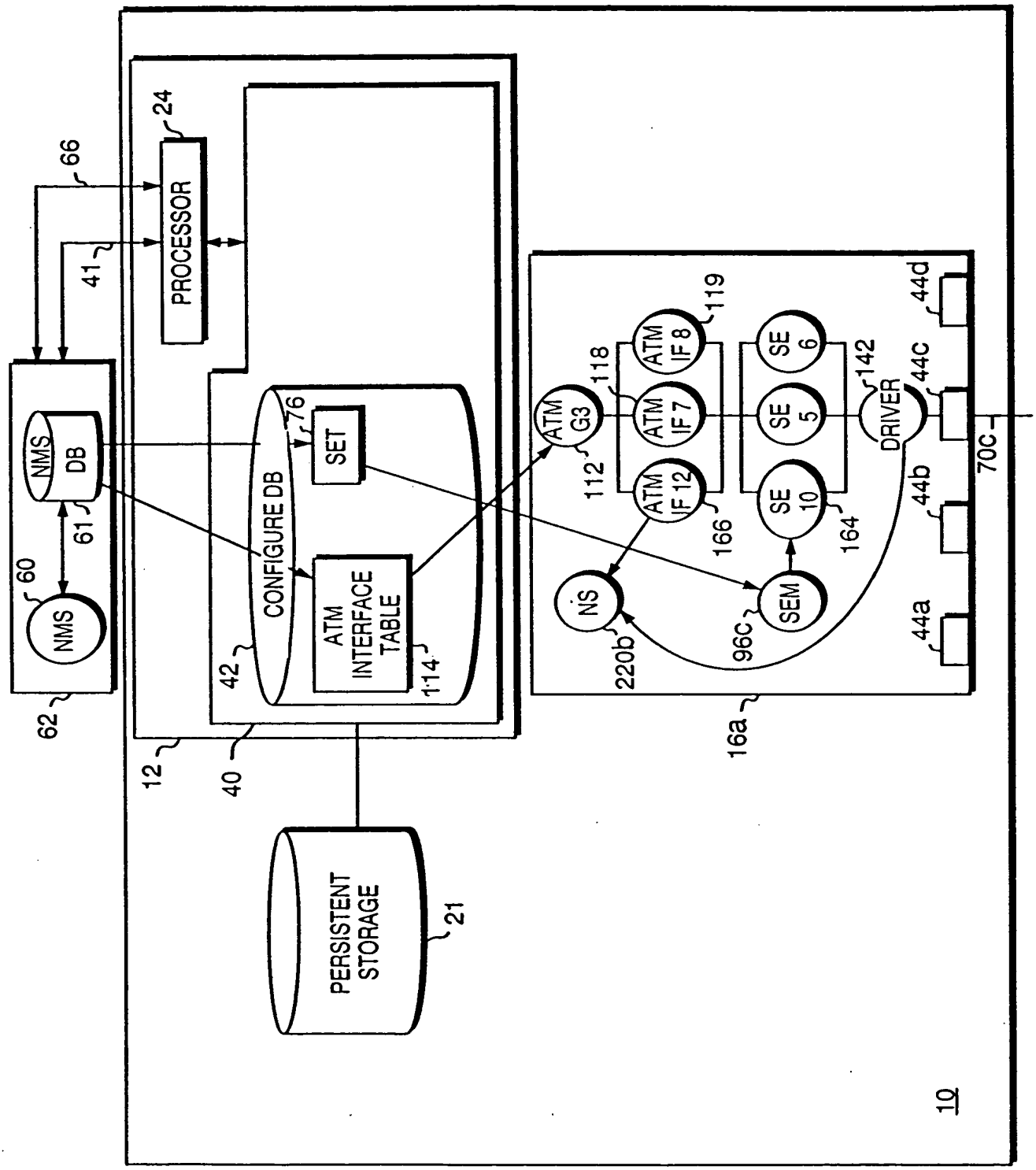

66
24
PROCESSOR
41
NMS
DB
61
60
NMS
62
76
SET
CONFIGURE DB
ATM INTERFACE TABLE
114
42
12
40
PERSISTENT STORAGE
21
ATM G3
112
118
ATM IF 7
ATM IF 8
119
ATM IF 12
166
SE 10
164
SE 5
SE 6
142
DRIVER
44c
44d
44b
44a
70c
NS
220b
SEM
96c
16a
10

FIG. 17

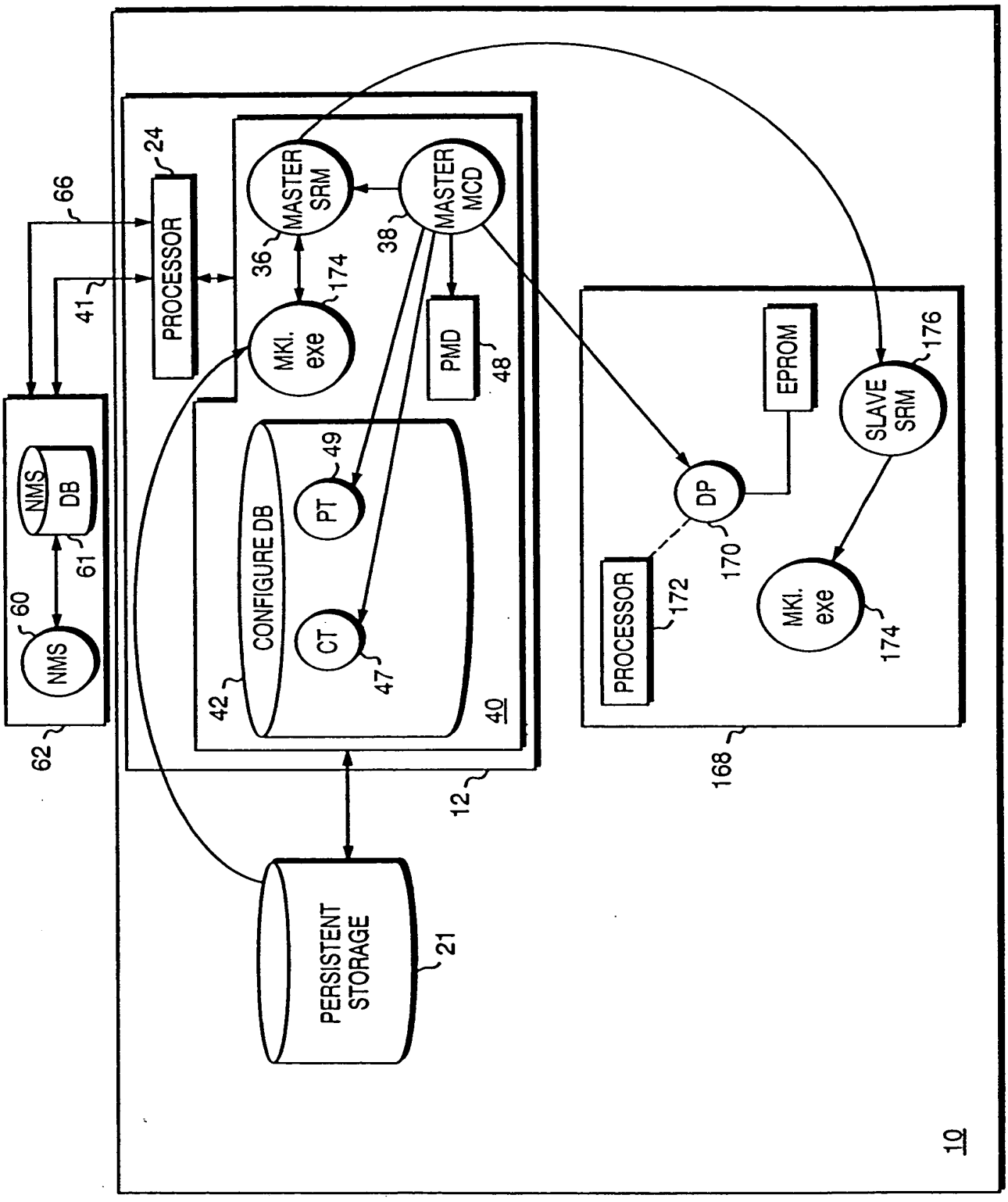

10
12
168
62
66
41
24
PROCESSOR
36
MASTER SRM
38
MASTER MCD
174
MKI. exe
PMD
48
49
PT
CONFIGURE DB
CT
47
42
40
NMS
DB
61
60
NMS
PERSISTENT STORAGE
21
DP
170
PROCESSOR
172
EPROM
SLAVE SRM
176
MKI. exe
174

FIG. 18

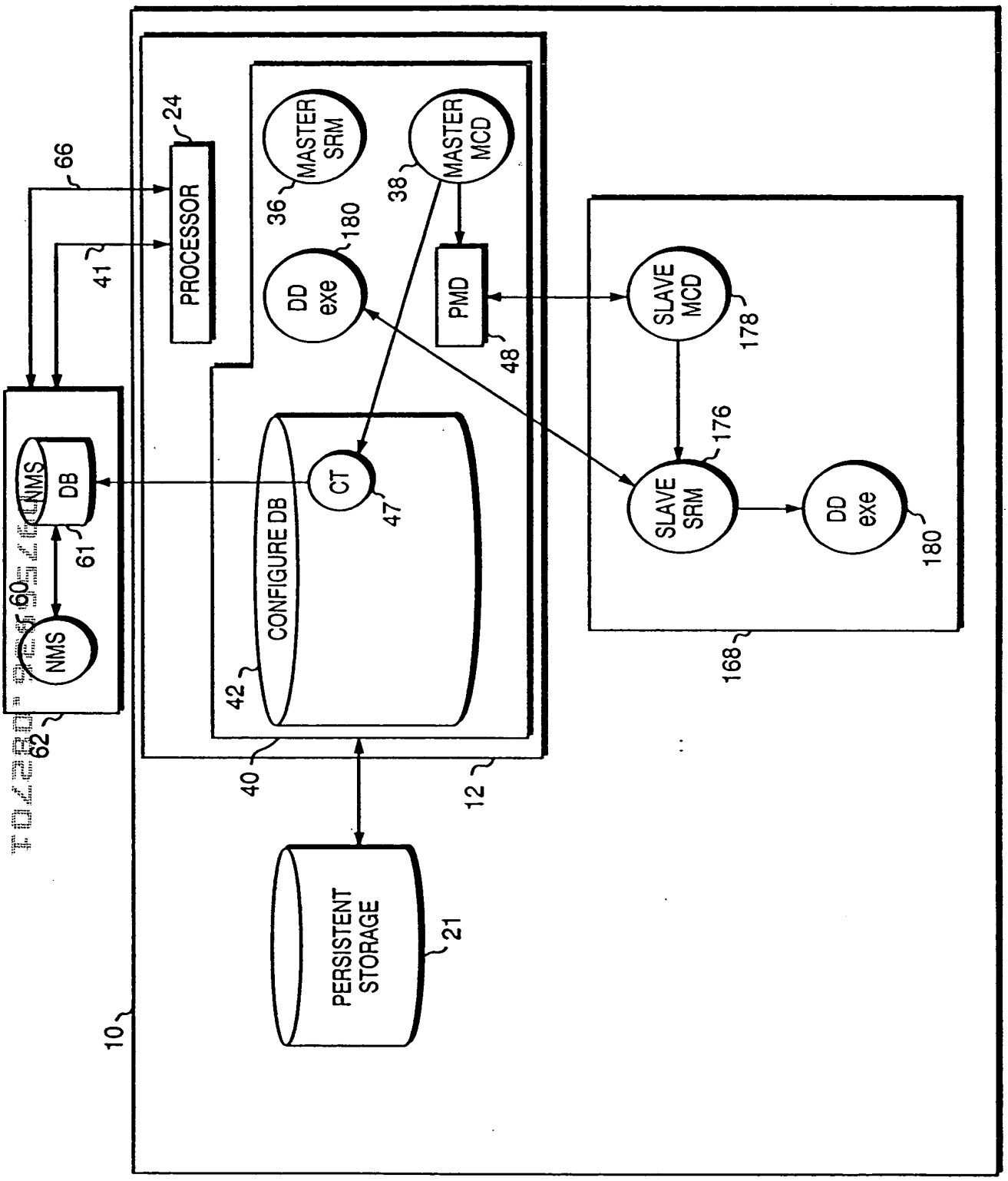

10
12
24
PROCESSOR
66
41
MASTER SRM
36
MASTER MCD
38
180
DD exe
PMD
48
SLAVE MCD
178
176
SLAVE SRM
DD exe
180
168
CT
47
CONFIGURE DB
42
40
NMS
DB
61
NMS
60
62
PERSISTENT STORAGE
21

FIG. 19

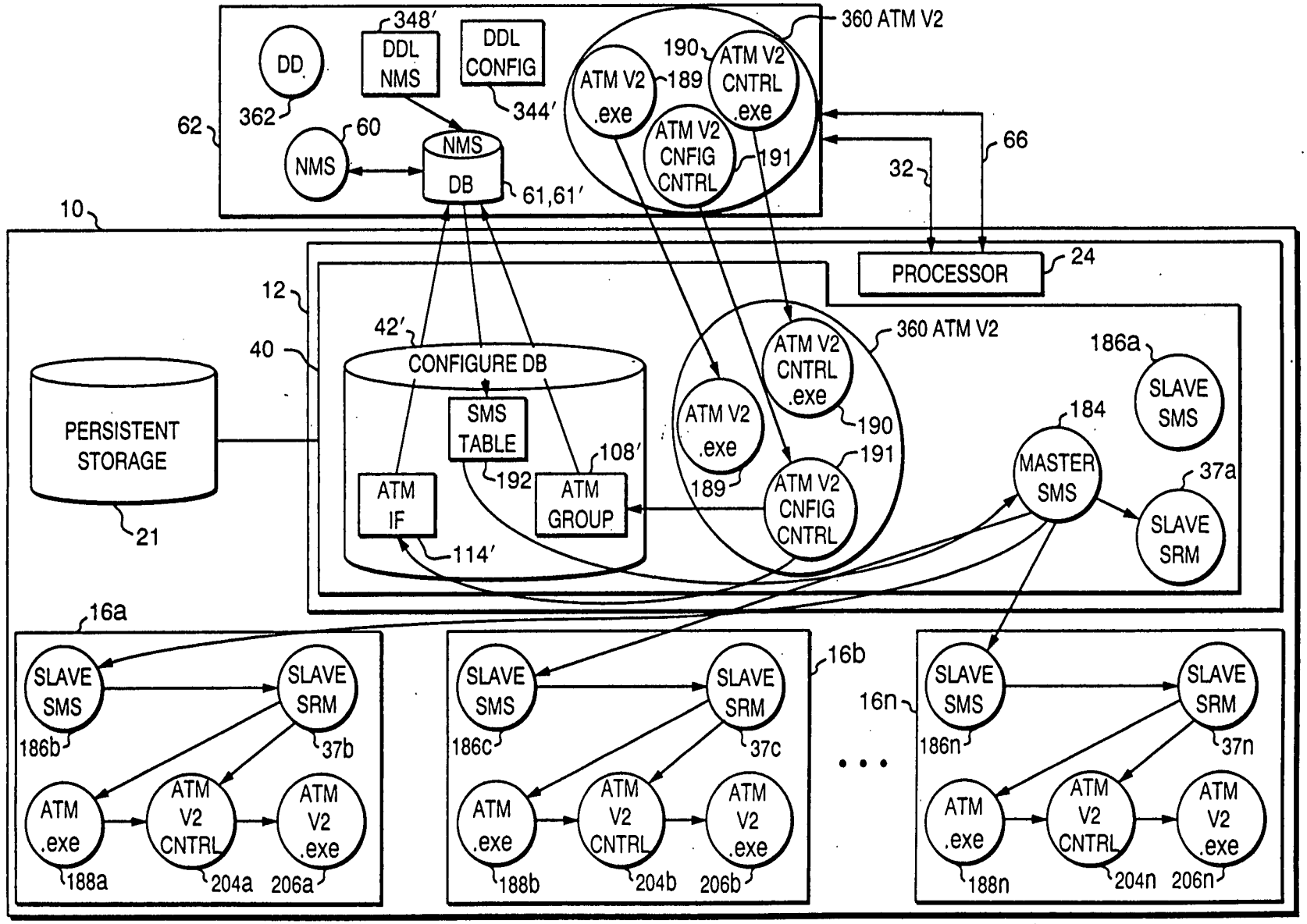


FIG. 20

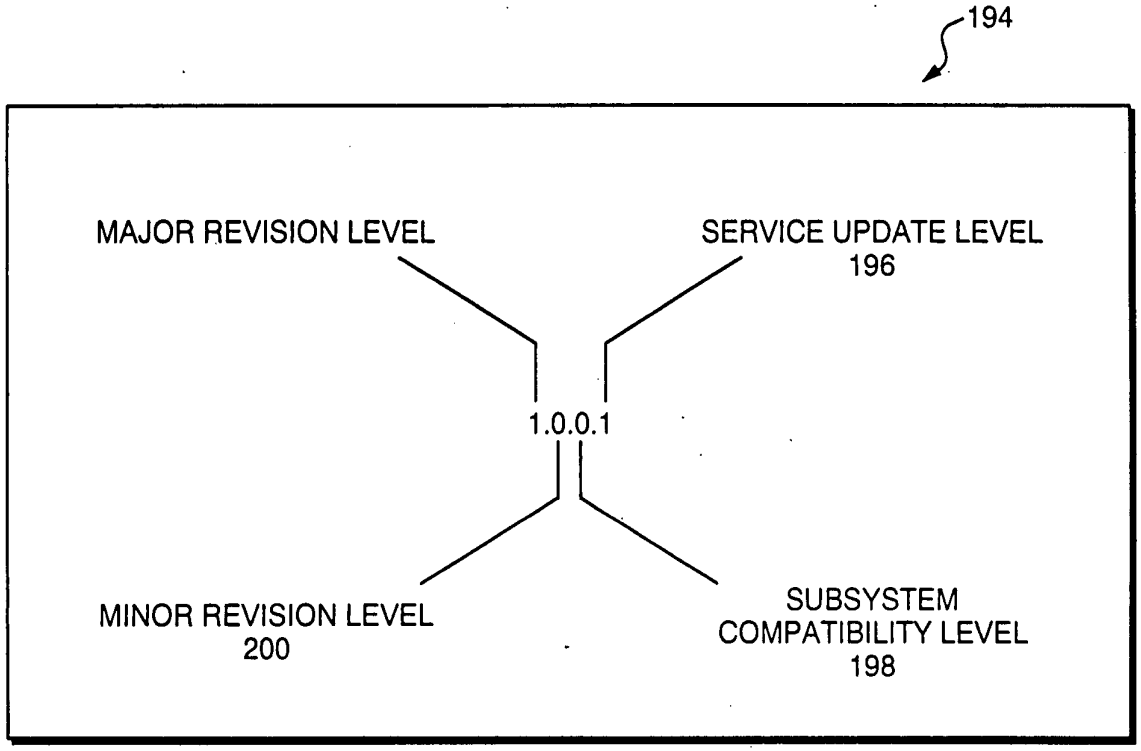


FIG. 21

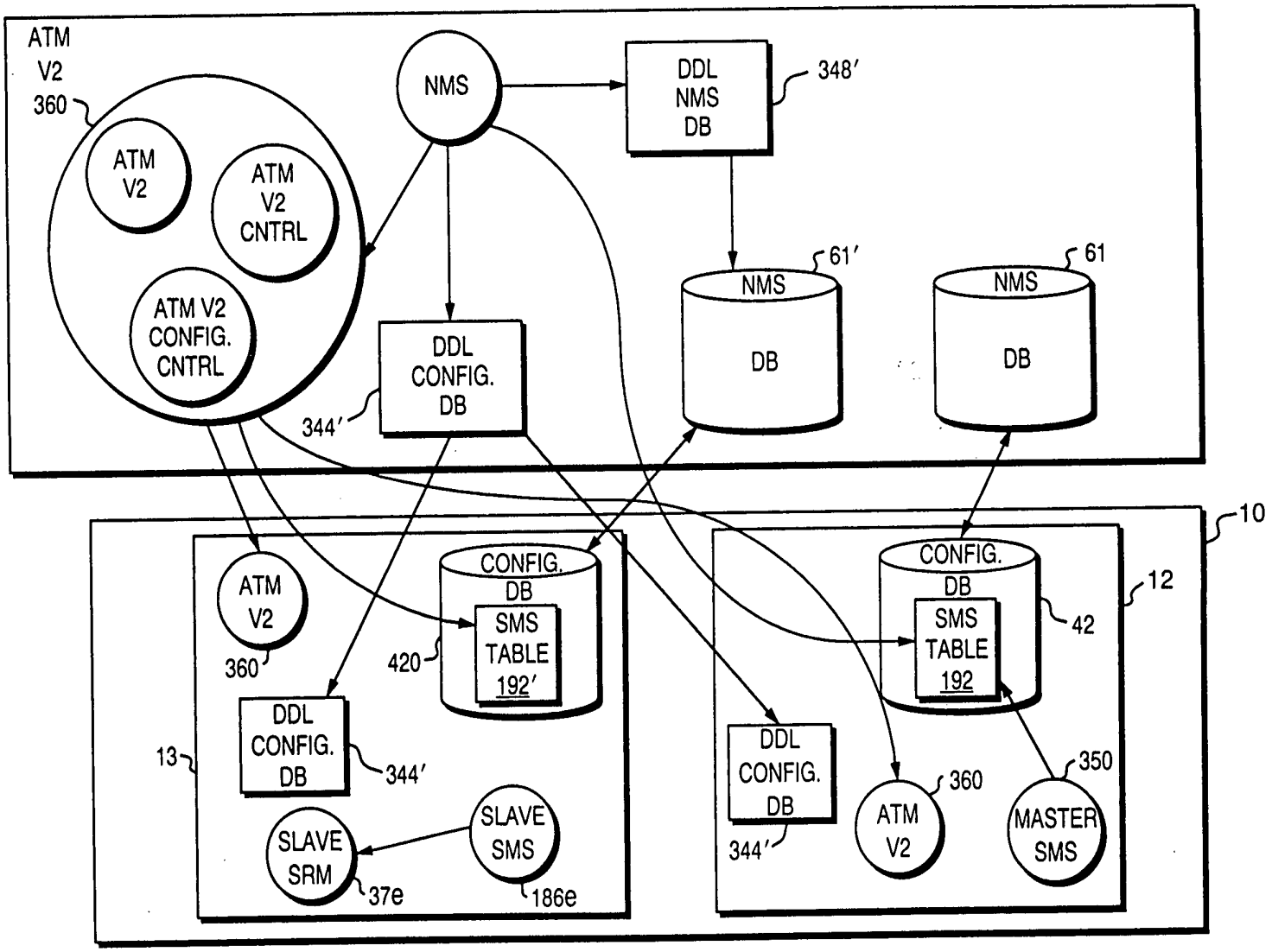


FIG. 22

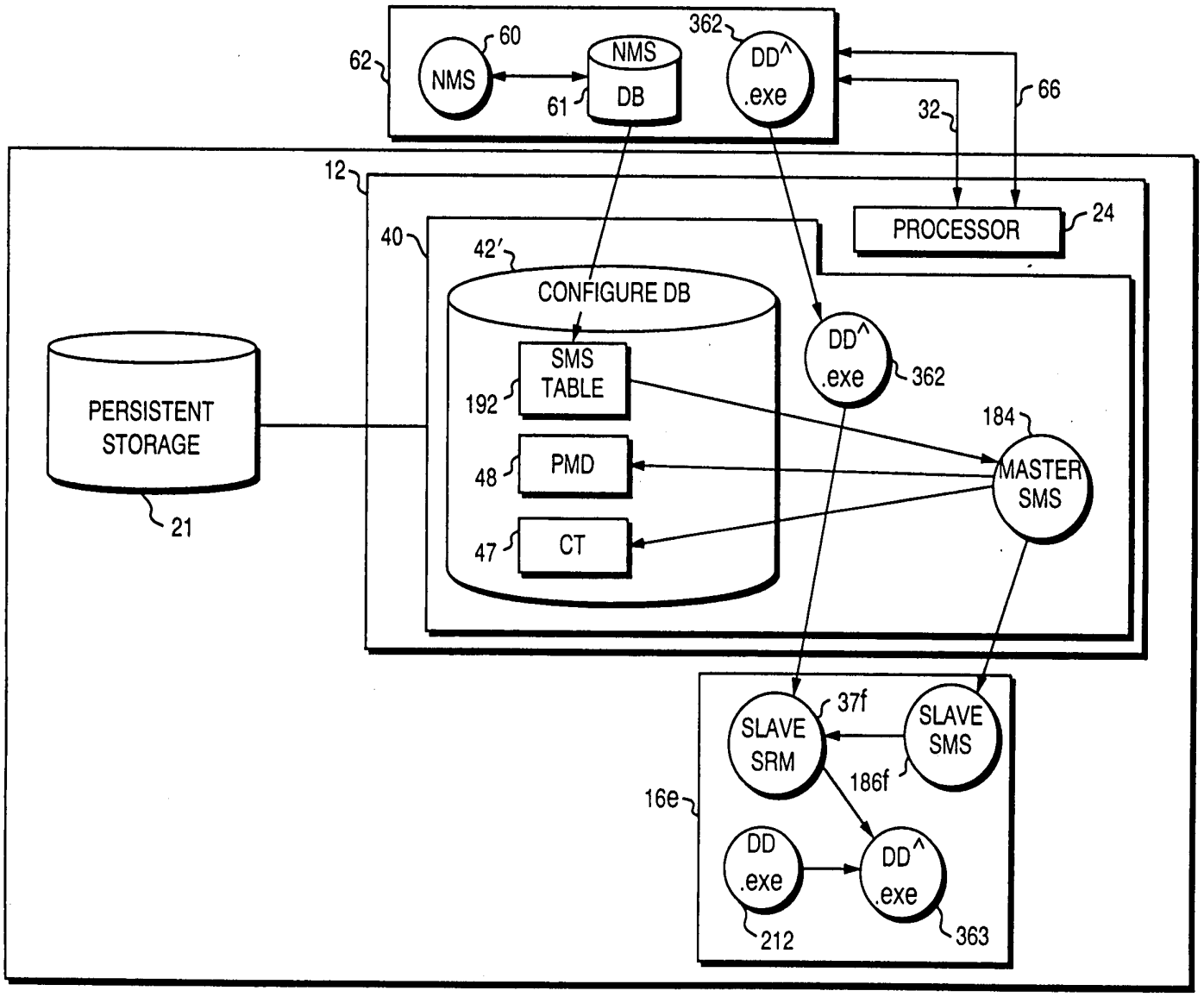


FIG. 23

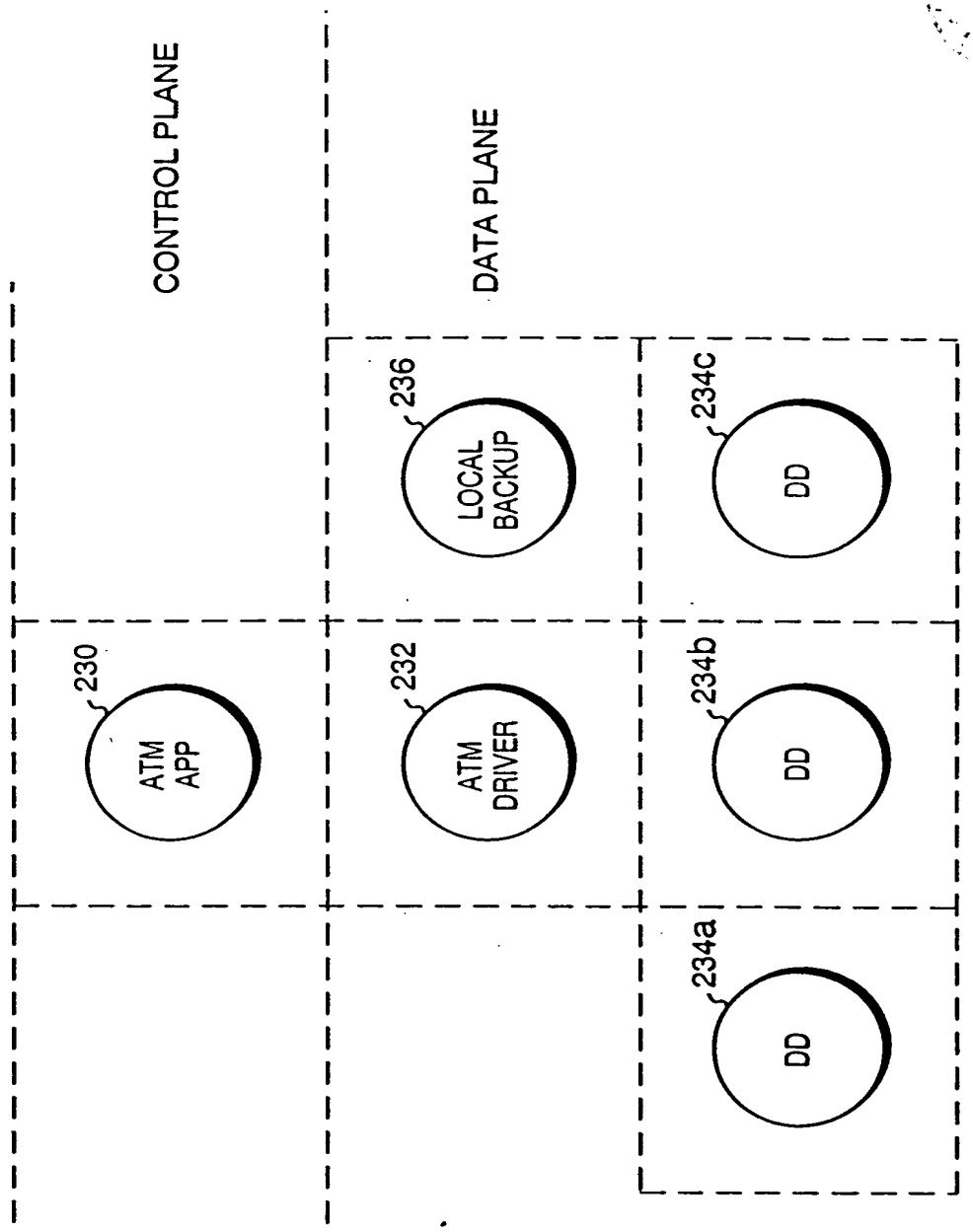

CONTROL PLANE
DATA PLANE
230
ATM APP
232
ATM DRIVER
236
LOCAL BACKUP
234a
DD
234b
DD
234c
DD

FIG. 24

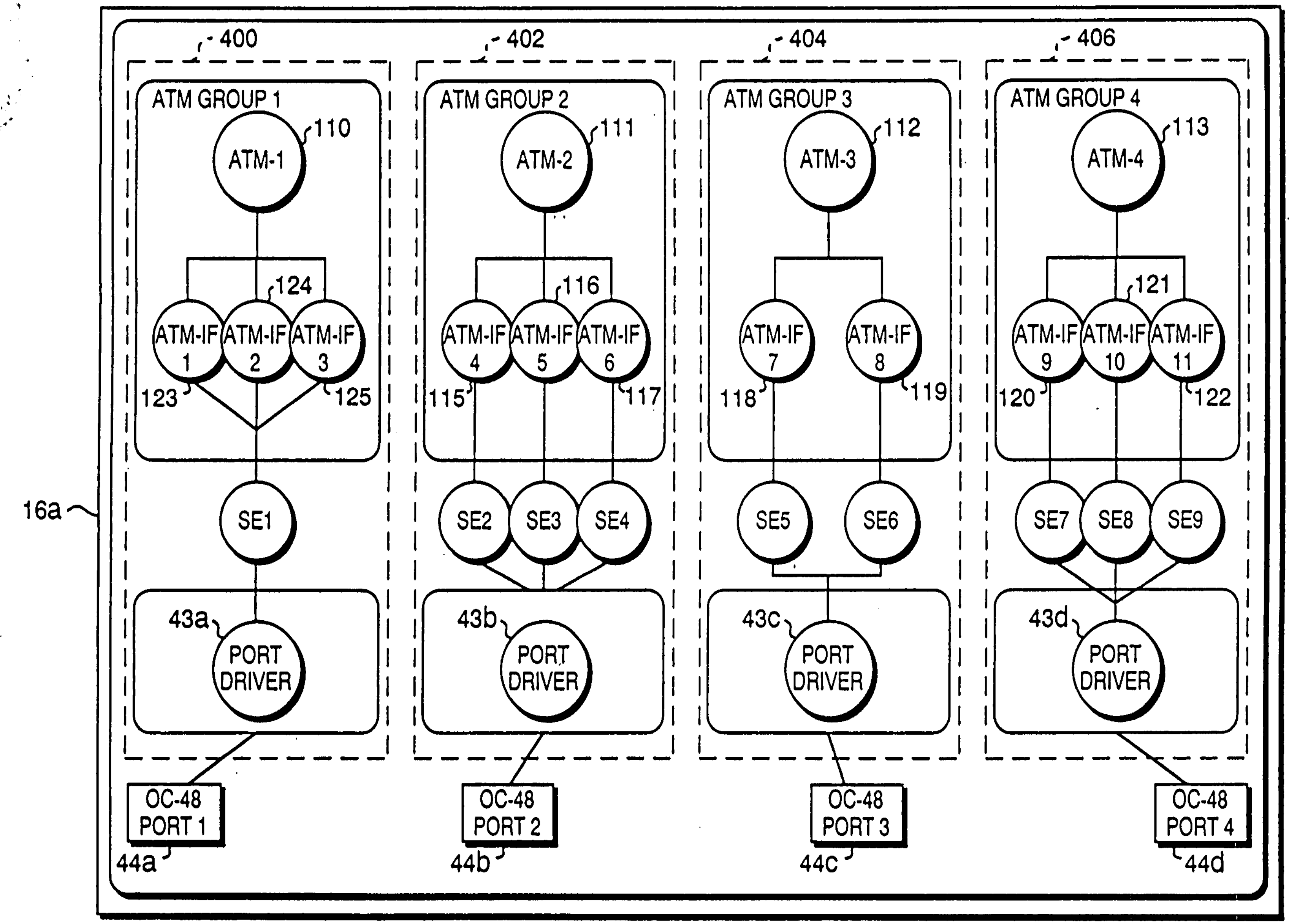


FIG. 25

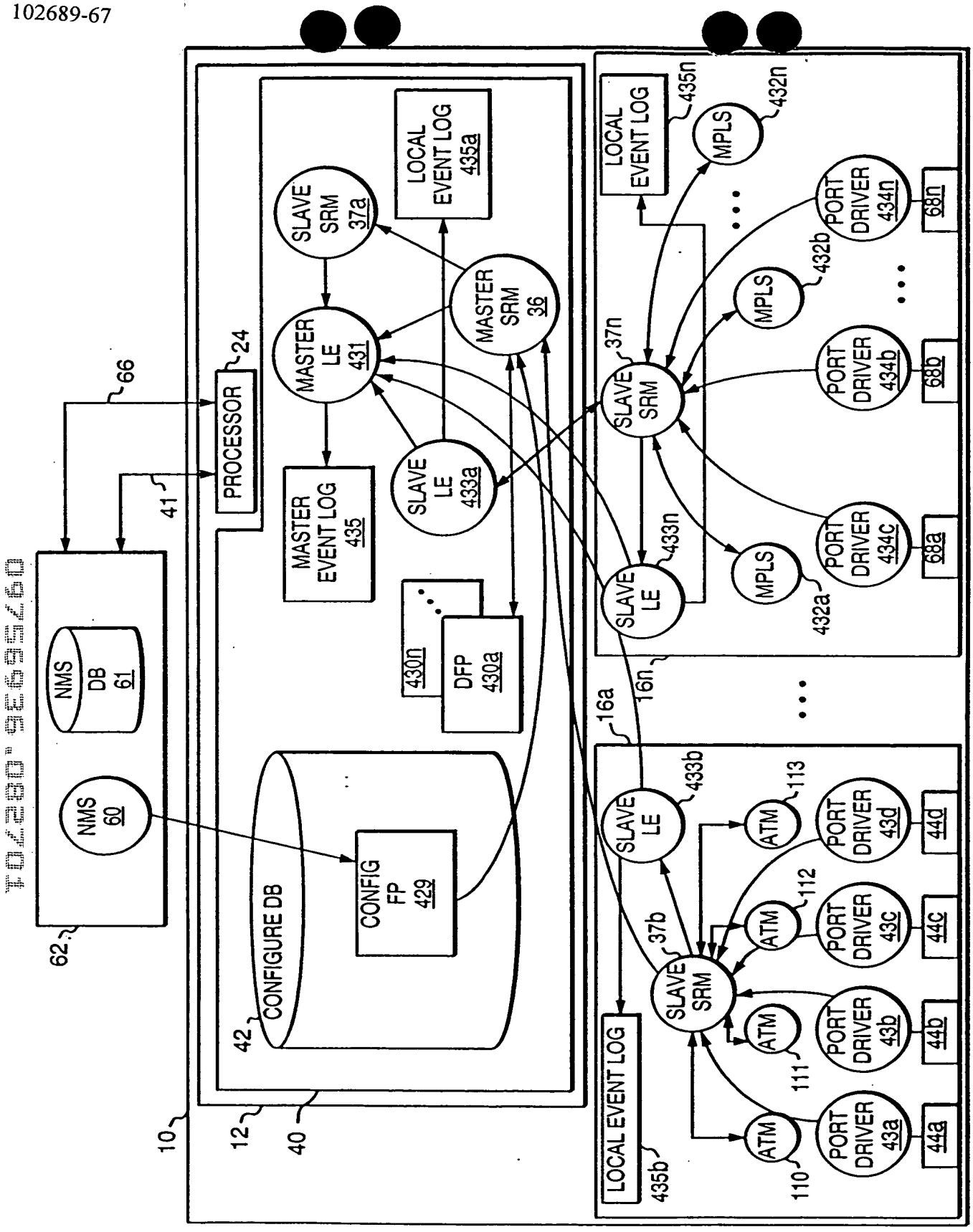

NMS
60
NMS
DB
61
62
66
41
PROCESSOR
24
10
12
40
CONFIGURE DB
42
CONFIG
FP
429
MASTER
LE
431
SLAVE
SRM
37a
LOCAL
EVENT LOG
435a
MASTER
SRM
36
SLAVE
LE
433a
MASTER
EVENT LOG
435
430n
DFP
430a
LOCAL EVENT LOG
435b
SLAVE
SRM
37b
SLAVE
LE
433b
16a
ATM
111
ATM
112
ATM
113
ATM
110
PORT
DRIVER
43a
PORT
DRIVER
43b
PORT
DRIVER
43c
PORT
DRIVER
43d
44a
44b
44c
44d
16n
LOCAL
EVENT LOG
435n
SLAVE
SRM
37n
SLAVE
LE
433n
MPLS
432a
MPLS
432b
MPLS
432n
PORT
DRIVER
434c
PORT
DRIVER
434b
PORT
DRIVER
434n
68a
68b
68n

FIG. 26

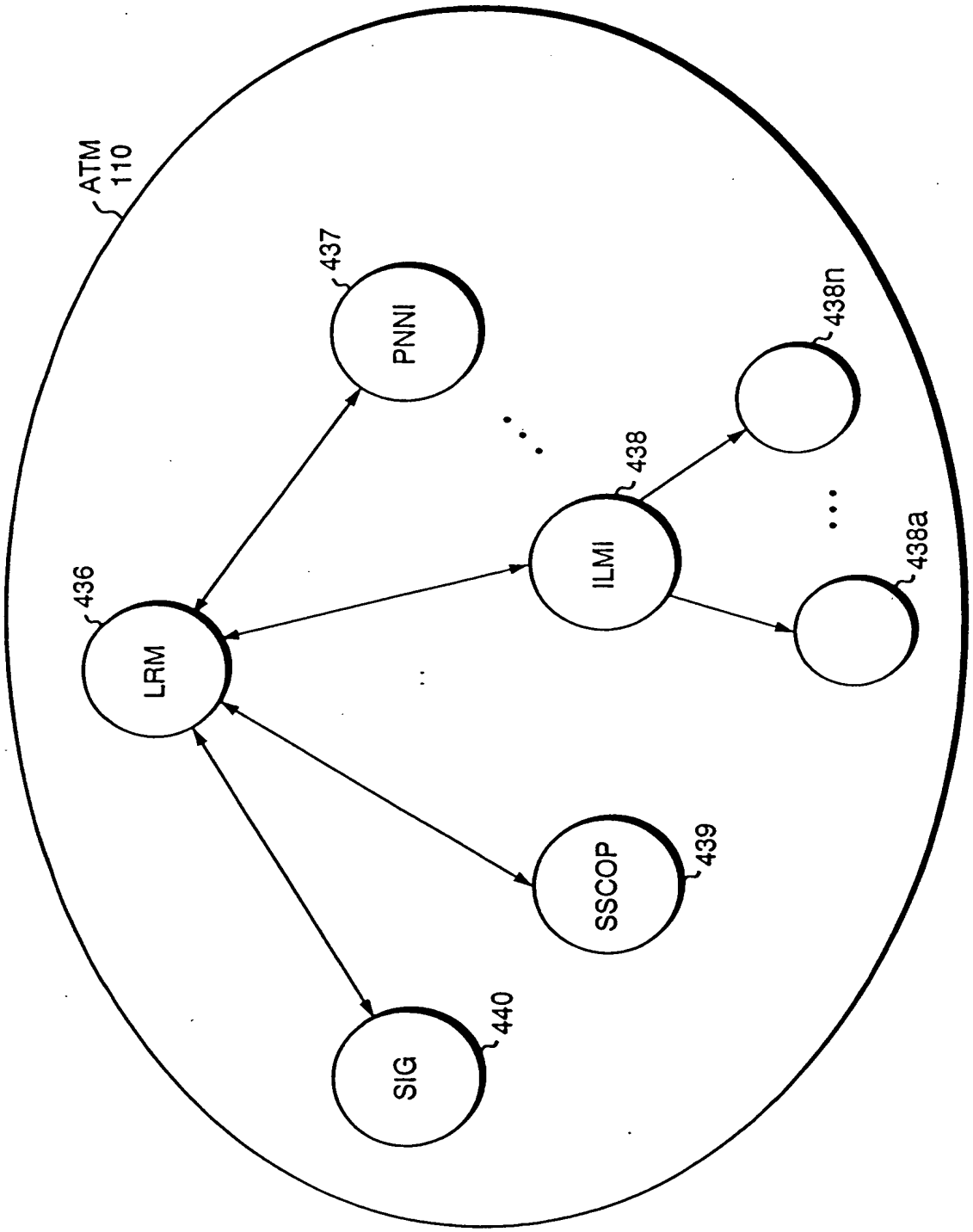


FIG. 27

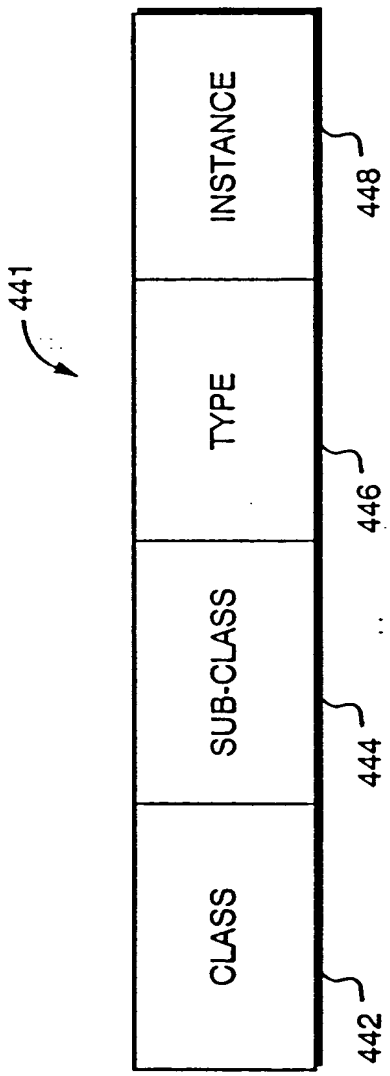


FIG. 28

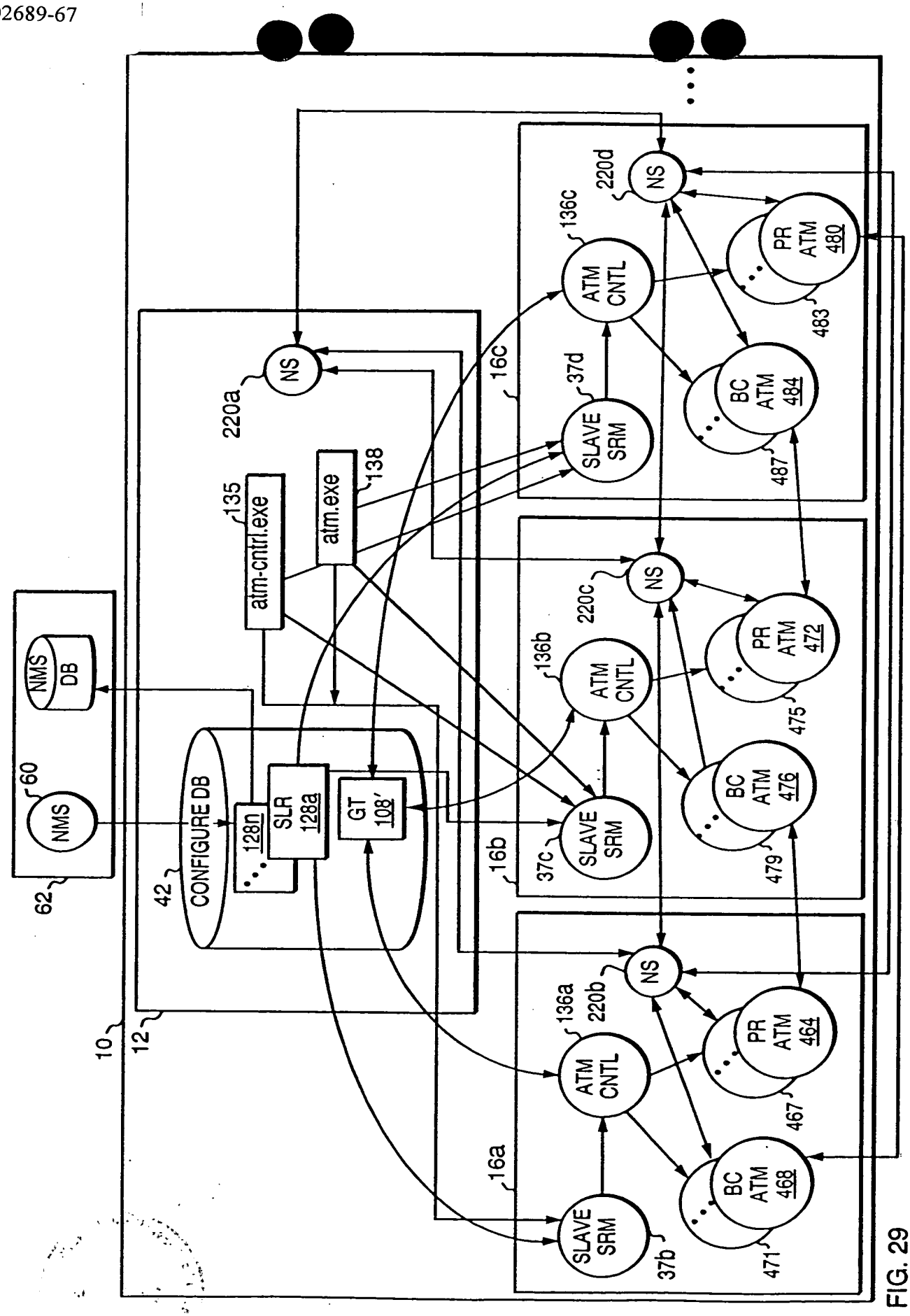

NMS
DB
60
NMS
62
CONFIGURE DB
42
128n
SLR 128a
GT 108'
atm-cntrl.exe
135
atm.exe
138
10
12
NS
220a
16a
16b
16c
SLAVE SRM
37b
37c
37d
ATM CNTL
136a
136b
136c
220b
220c
220d
BC ATM 468
BC ATM 476
BC ATM 484
PR ATM 464
PR ATM 472
PR ATM 480
471
479
487
467
475
483

FIG. 29

GROUP TABLE 108′

	GROUP # (447)	PRIMARY CARD LID (447)	BACKUP CARD LID (449)	• • •
450	1	30	31	
451	2	30	31	
452	3	30	31	
453	4	30	31	
454	5	31	32	
455	6	31	32	
456	7	31	32	
457	8	31	32	
458	9	32	30	
459	10	32	30	
460	11	32	30	
461	12	32	30	
	⋮	⋮	⋮	⋮

FIG. 30

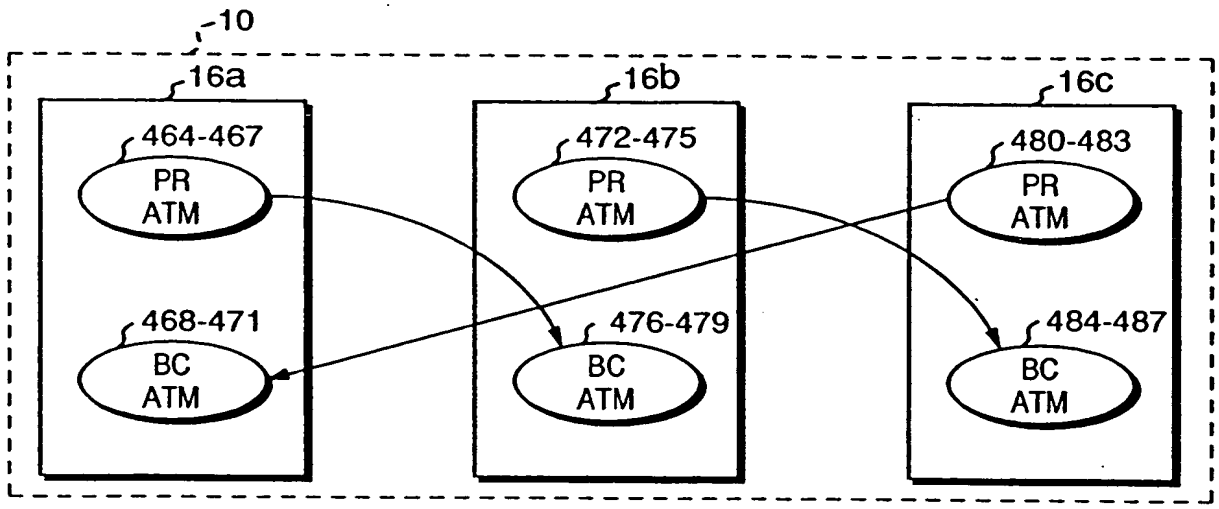


FIG. 31A

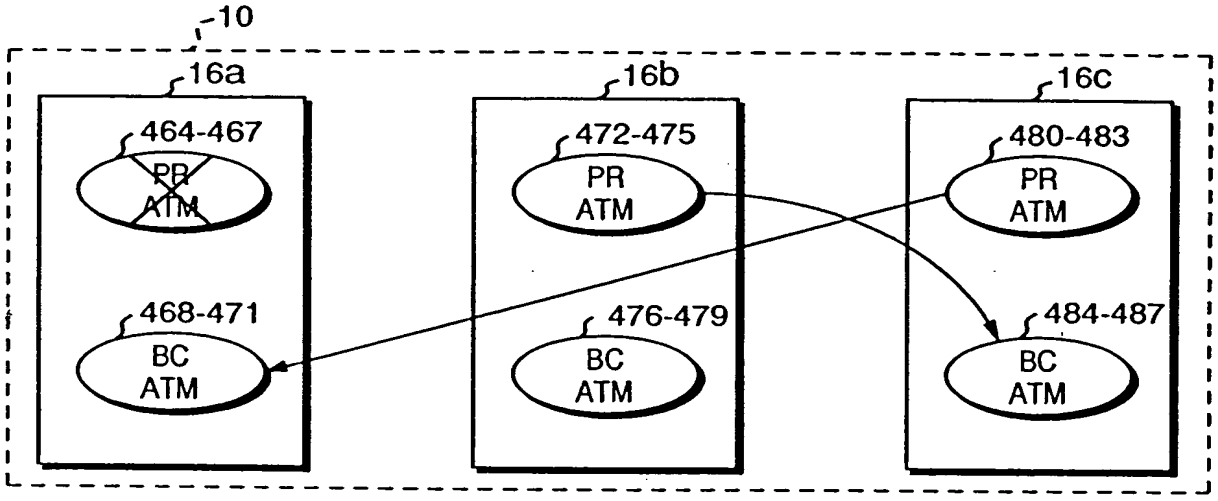


FIG. 31B

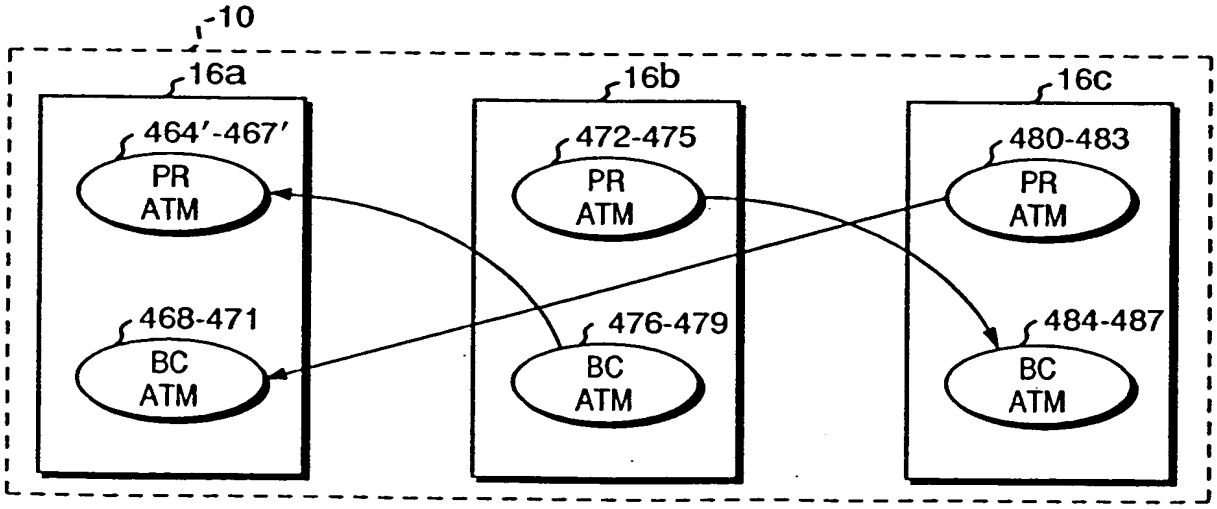


FIG. 31C

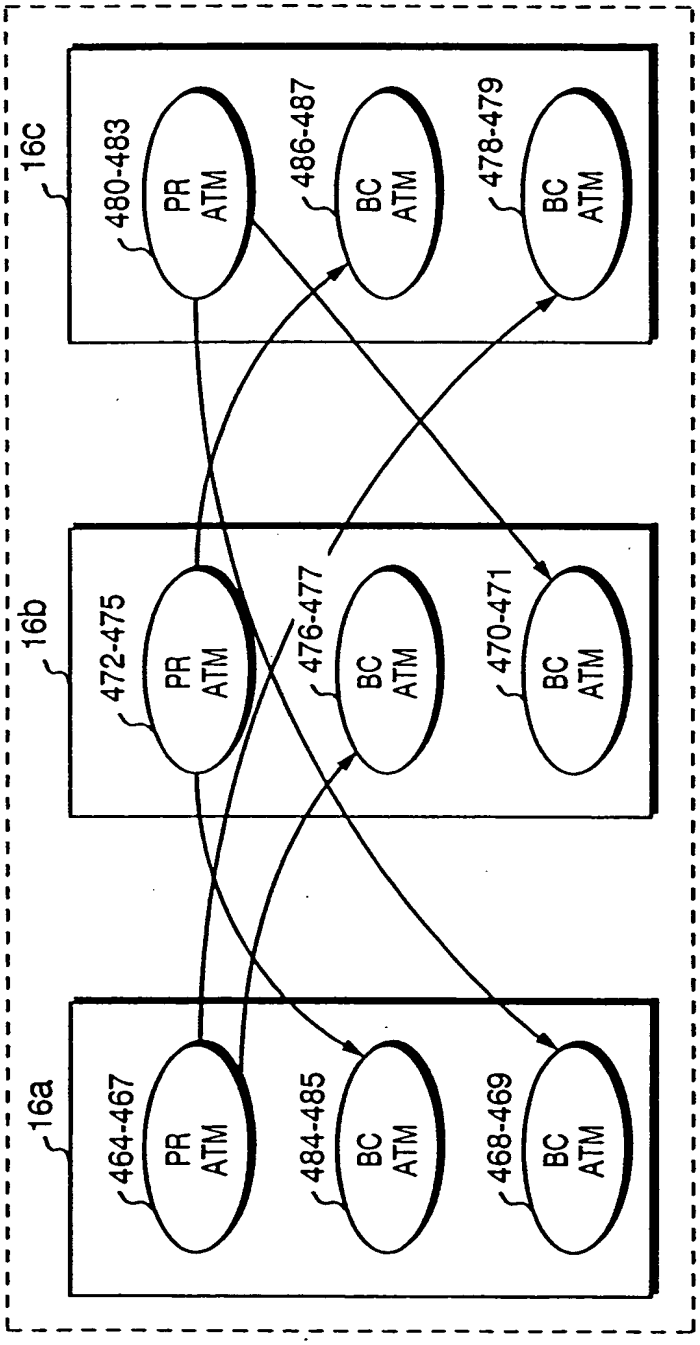

16c
480-483
PR ATM
486-487
BC ATM
478-479
BC ATM
16b
472-475
PR ATM
476-477
BC ATM
470-471
BC ATM
16a
464-467
PR ATM
484-485
BC ATM
468-469
BC ATM

FIG. 32A

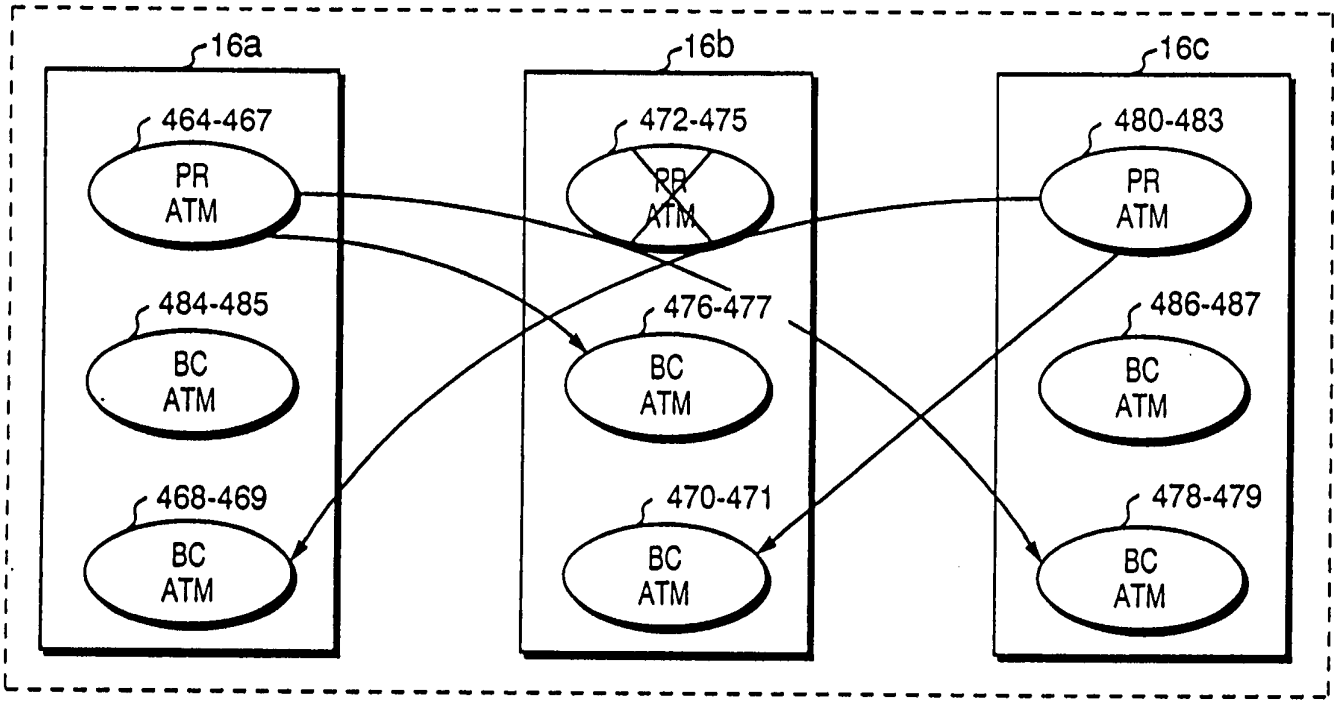


FIG. 32B

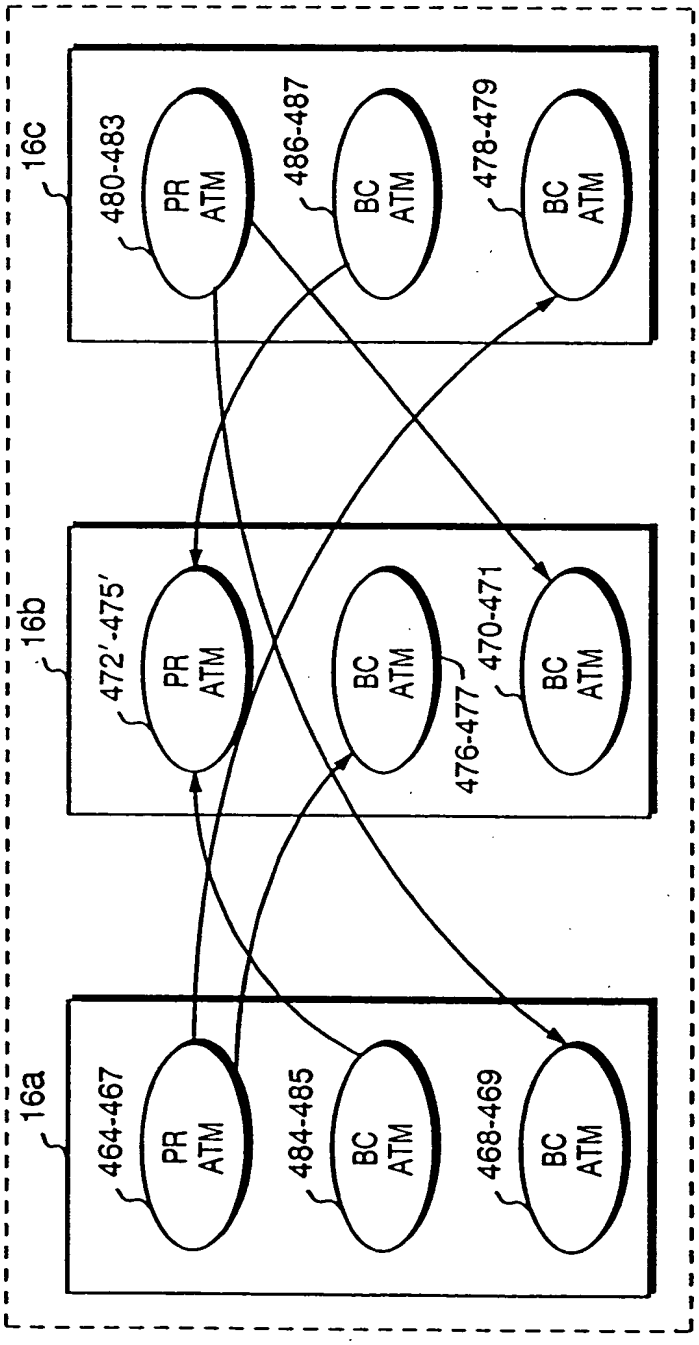

16a
464-467
PR ATM
484-485
BC ATM
468-469
BC ATM
16b
472'-475'
PR ATM
BC ATM
476-477
470-471
BC ATM
16c
480-483
PR ATM
486-487
BC ATM
478-479
BC ATM

FIG. 32C

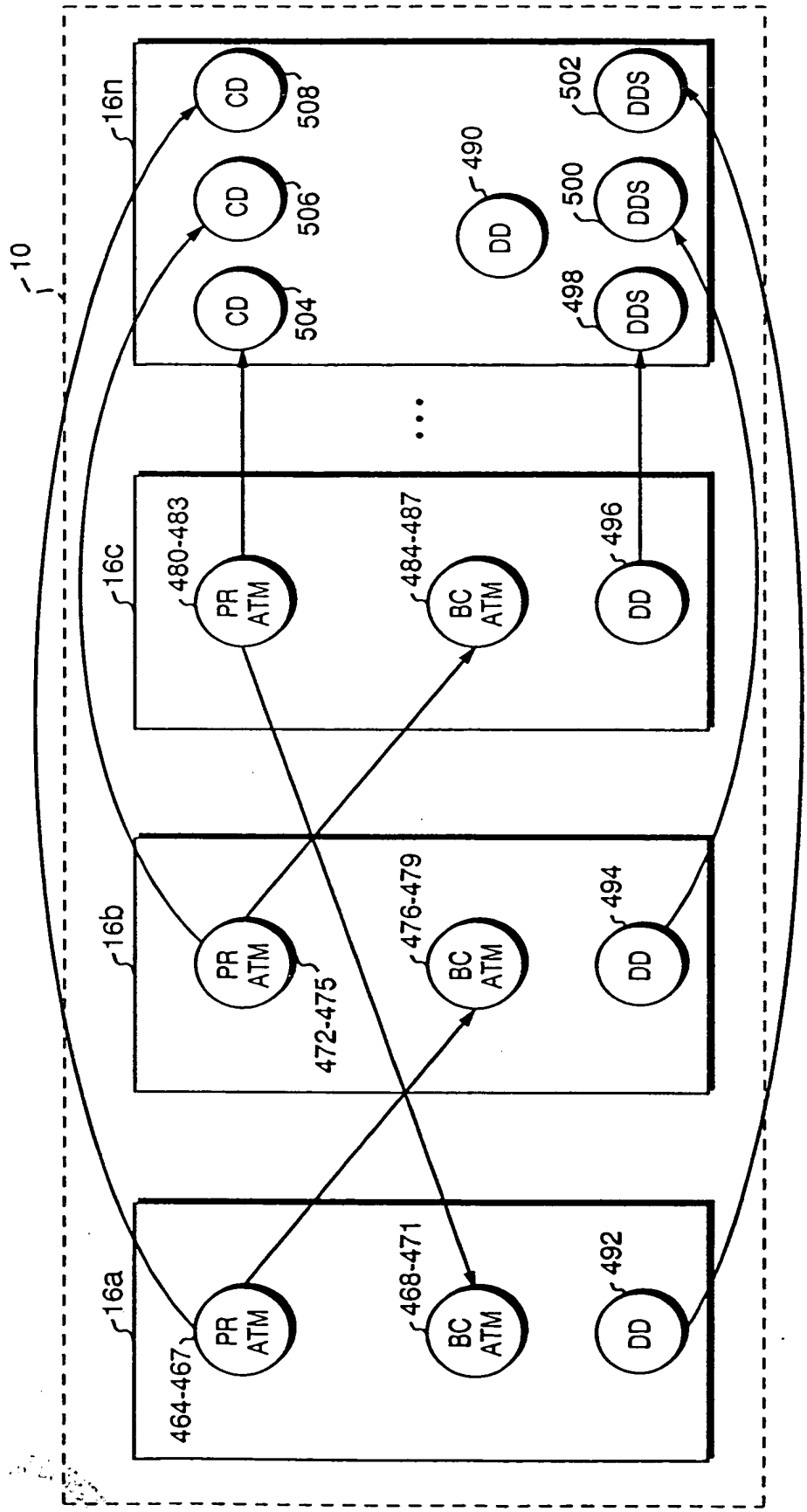

10
16n
CD
508
CD
506
CD
504
DD
490
DDS
502
DDS
500
DDS
498
16c
480-483
PR ATM
484-487
BC ATM
DD
496
16b
PR ATM
472-475
476-479
BC ATM
DD
494
16a
464-467
PR ATM
468-471
BC ATM
DD
492

FIG. 33A

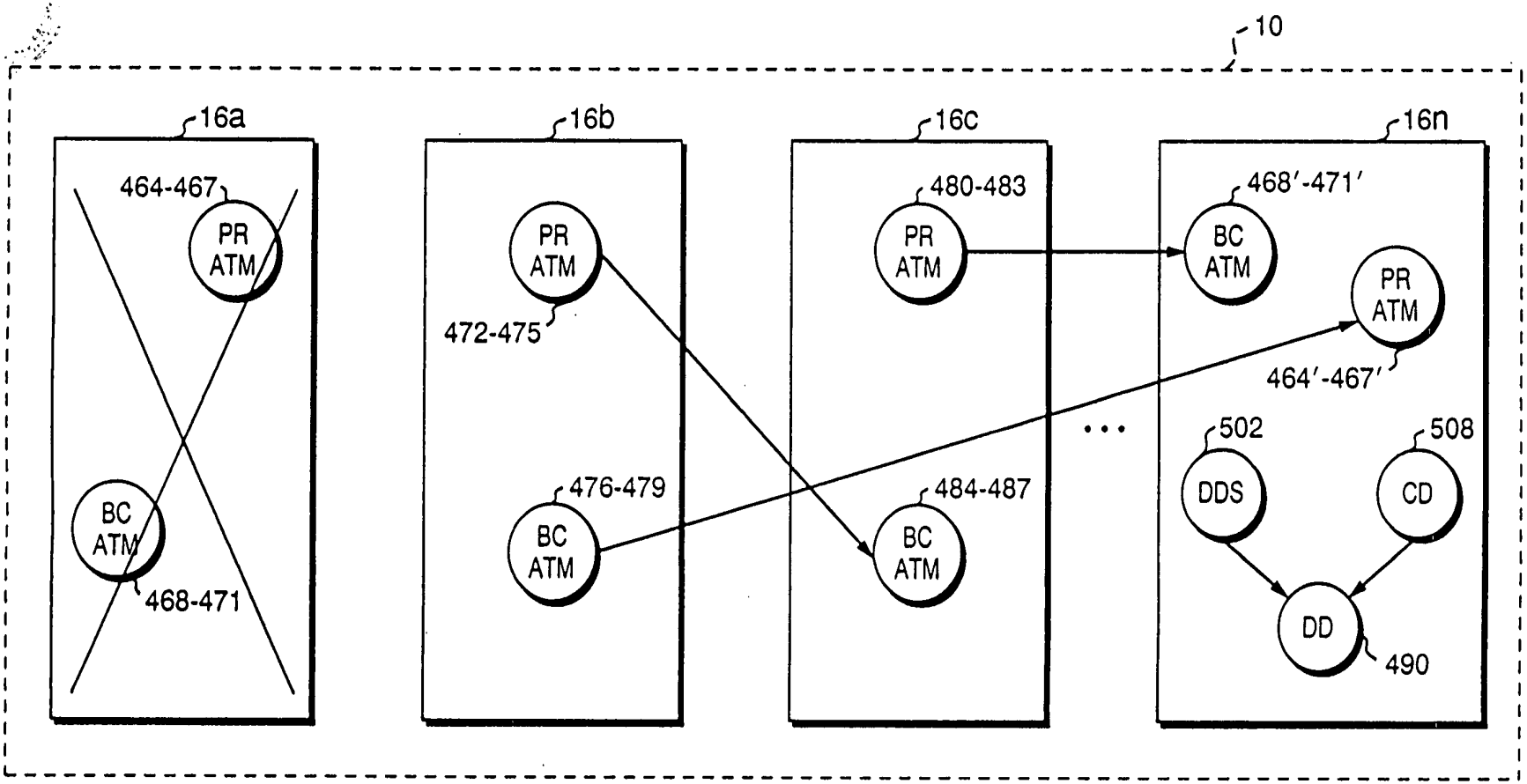


FIG. 33B

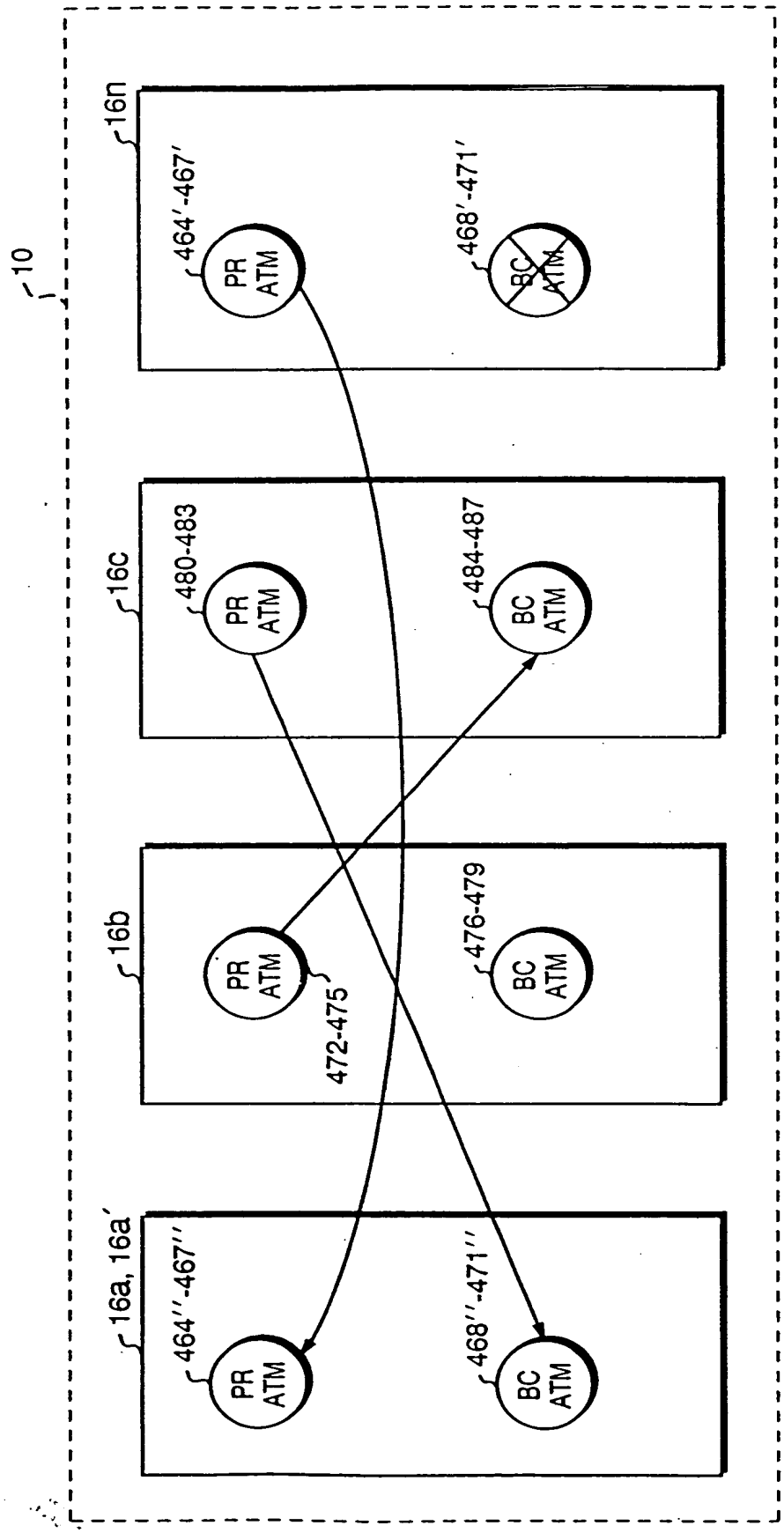

10
16n
464'-467'
PR ATM
468'-471'
BC ATM
16c
480-483
PR ATM
484-487
BC ATM
16b
PR ATM
472-475
476-479
BC ATM
16a, 16a'
464''-467''
PR ATM
468''-471''
BC ATM

FIG. 33C

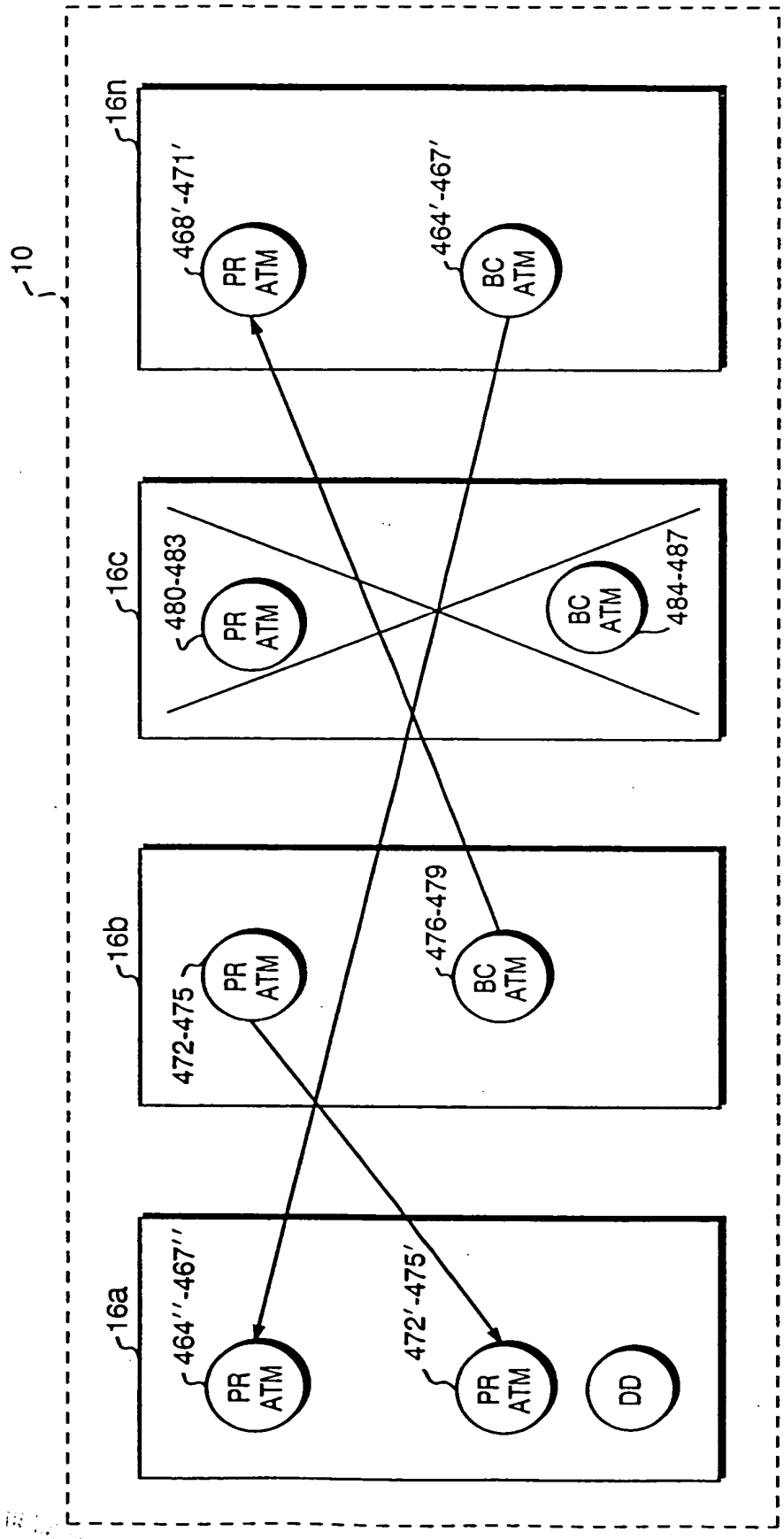

10
16n
468'-471'
PR ATM
464'-467'
BC ATM
16c
480-483
PR ATM
BC ATM
484-487
16b
472-475
PR ATM
476-479
BC ATM
16a
464''-467''
PR ATM
472'-475'
PR ATM
DD

FIG. 33D

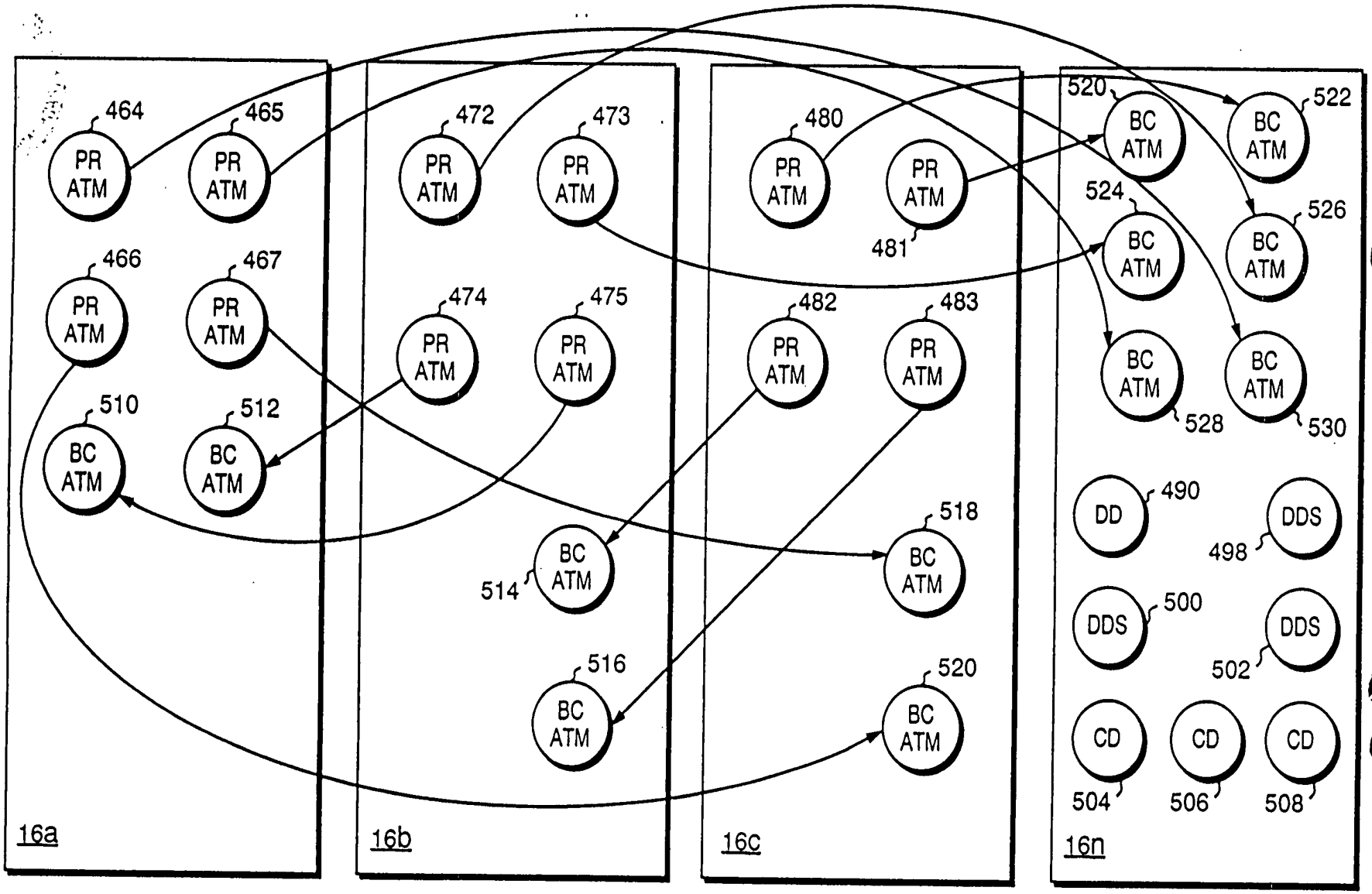

464
PR ATM
465
PR ATM
466
PR ATM
467
PR ATM
510
BC ATM
512
BC ATM
16a
472
PR ATM
473
PR ATM
474
PR ATM
475
PR ATM
514
BC ATM
516
BC ATM
16b
480
PR ATM
481
PR ATM
482
PR ATM
483
PR ATM
518
BC ATM
520
BC ATM
16c
520
BC ATM
522
BC ATM
524
BC ATM
526
BC ATM
528
BC ATM
530
BC ATM
DD
490
DDS
498
DDS
500
DDS
502
CD
504
CD
506
CD
508
16n

FIG. 34A

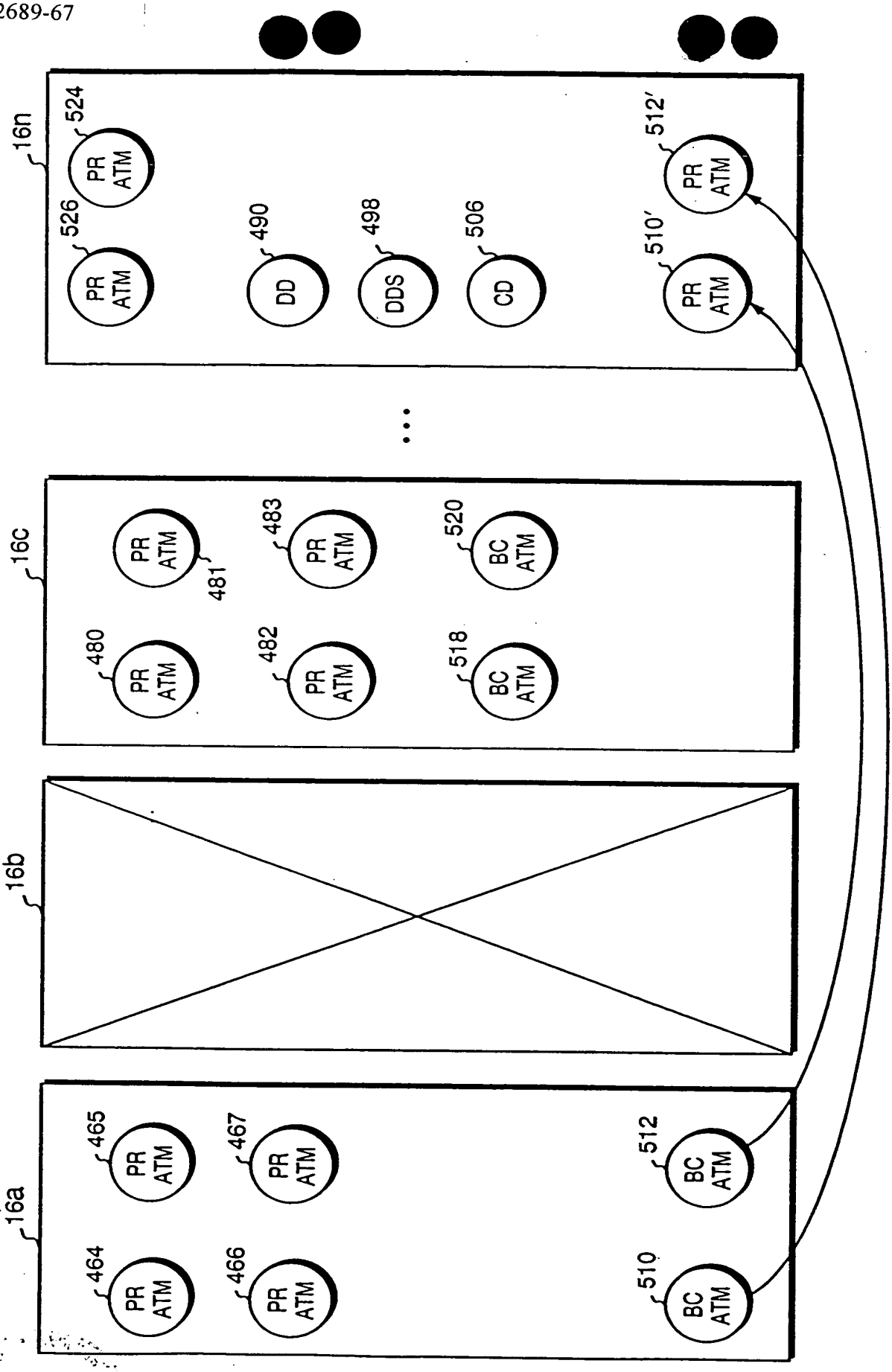

16a
16b
16c
16n
PR ATM
BC ATM
DD
DDS
CD
464
465
466
467
510
512
480
481
482
483
518
520
524
526
490
498
506
510'
512'

FIG. 34B

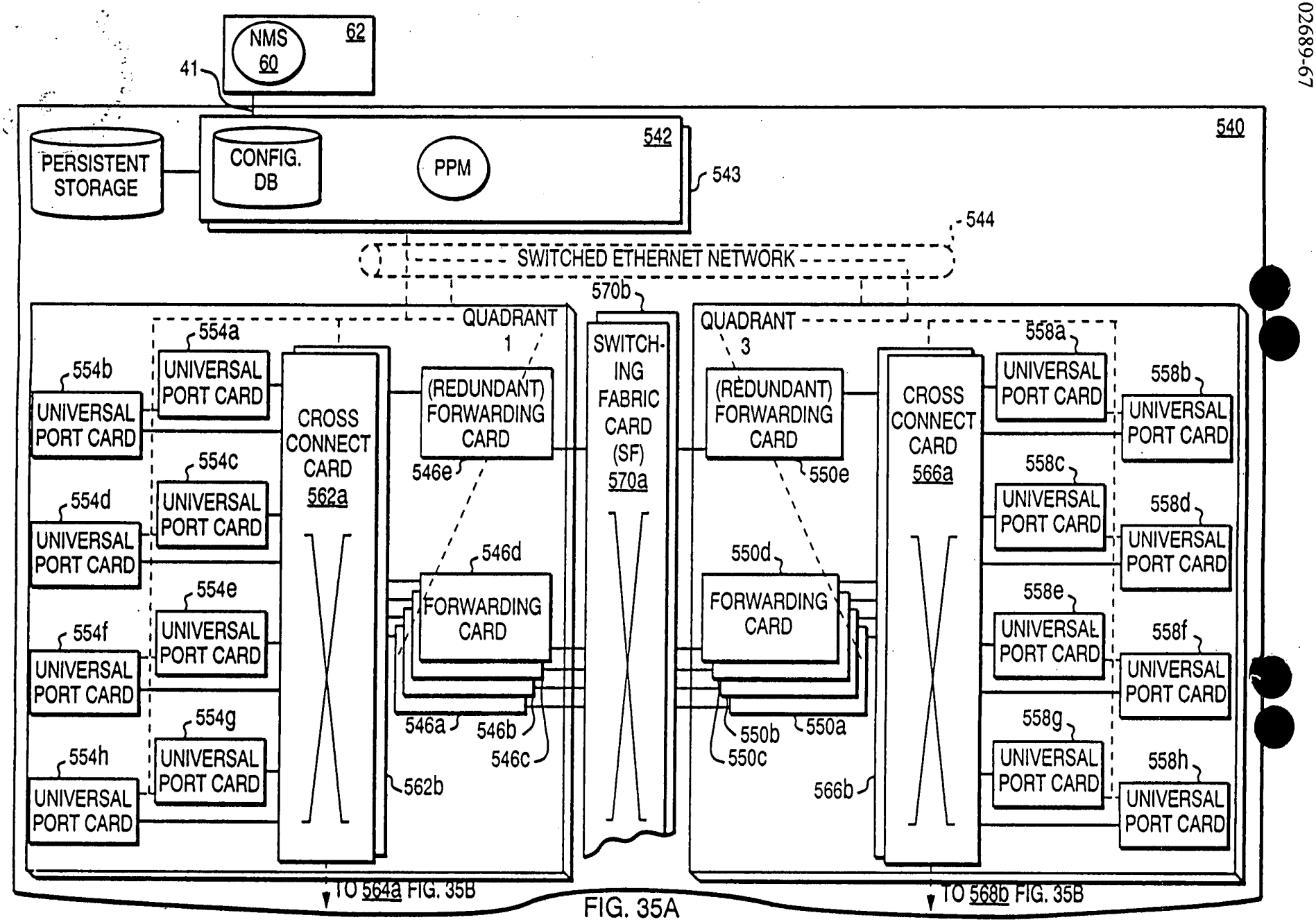

NMS
60
62
41
PERSISTENT STORAGE
CONFIG. DB
PPM
542
543
540
544
SWITCHED ETHERNET NETWORK
570b
QUADRANT 1
QUADRANT 3
SWITCH-ING FABRIC CARD (SF)
570a
554a
554b
554c
554d
554e
554f
554g
554h
UNIVERSAL PORT CARD
CROSS CONNECT CARD
562a
562b
(REDUNDANT) FORWARDING CARD
546e
546d
FORWARDING CARD
546a
546b
546c
550e
550d
550b
550c
550a
566a
566b
558a
558b
558c
558d
558e
558f
558g
558h
TO 564a FIG. 35B
TO 568b FIG. 35B

FIG. 35A

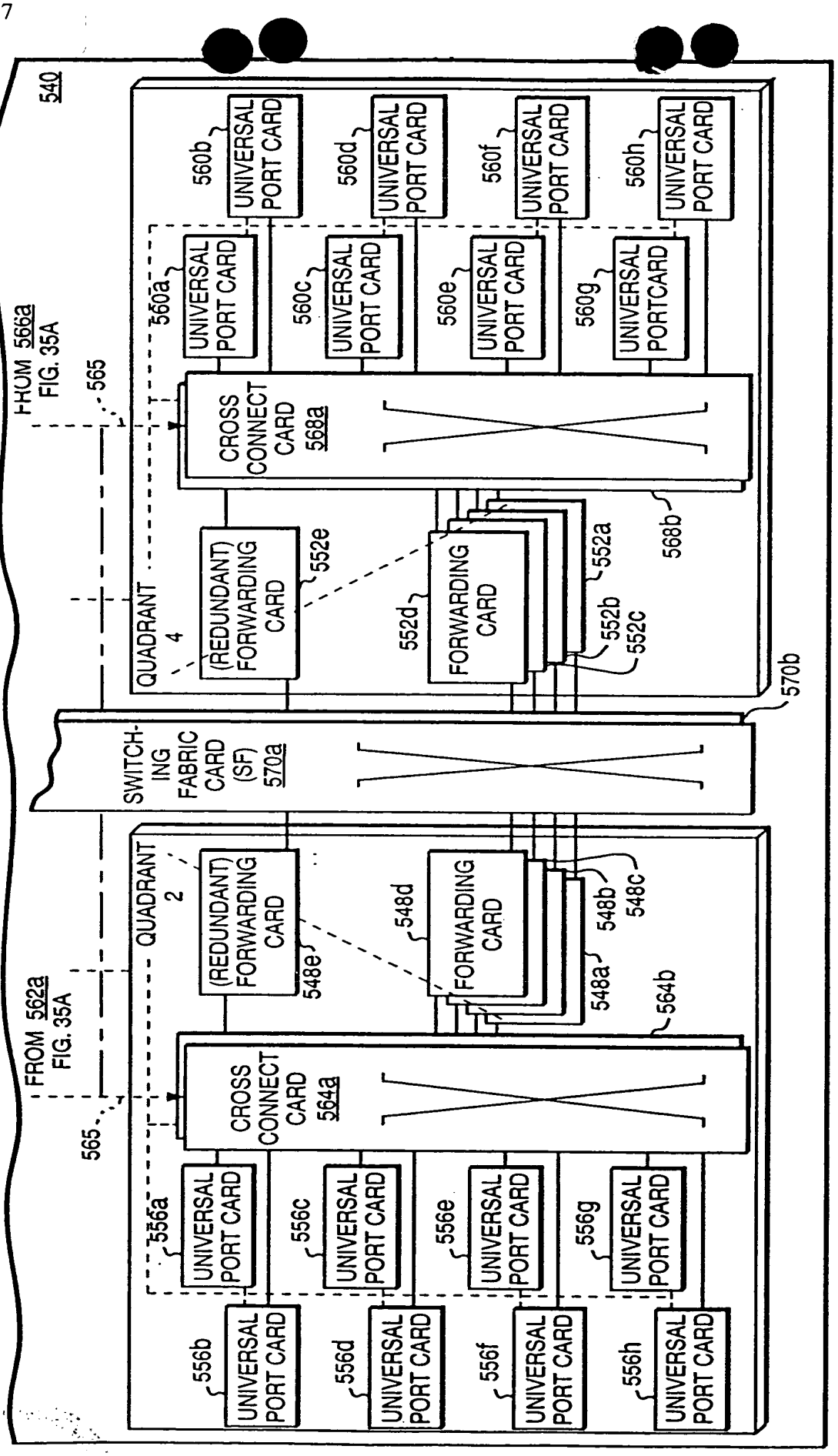

540
TO/FROM 566a FIG. 35A
565
QUADRANT 4
(REDUNDANT) FORWARDING CARD 552e
FORWARDING CARD 552d
552a
552b
552c
CROSS CONNECT CARD 568a
568b
560a UNIVERSAL PORT CARD
560b UNIVERSAL PORT CARD
560c UNIVERSAL PORT CARD
560d UNIVERSAL PORT CARD
560e UNIVERSAL PORT CARD
560f UNIVERSAL PORT CARD
560g UNIVERSAL PORTCARD
560h UNIVERSAL PORT CARD
570b
SWITCH-ING FABRIC CARD (SF) 570a
FROM 562a FIG. 35A
565
QUADRANT 2
(REDUNDANT) FORWARDING CARD 548e
FORWARDING CARD 548d
548a
548b
548c
564b
CROSS CONNECT CARD 564a
556a UNIVERSAL PORT CARD
556b UNIVERSAL PORT CARD
556c UNIVERSAL PORT CARD
556d UNIVERSAL PORT CARD
556e UNIVERSAL PORT CARD
556f UNIVERSAL PORT CARD
556g UNIVERSAL PORT CARD
556h UNIVERSAL PORT CARD

FIG. 35B

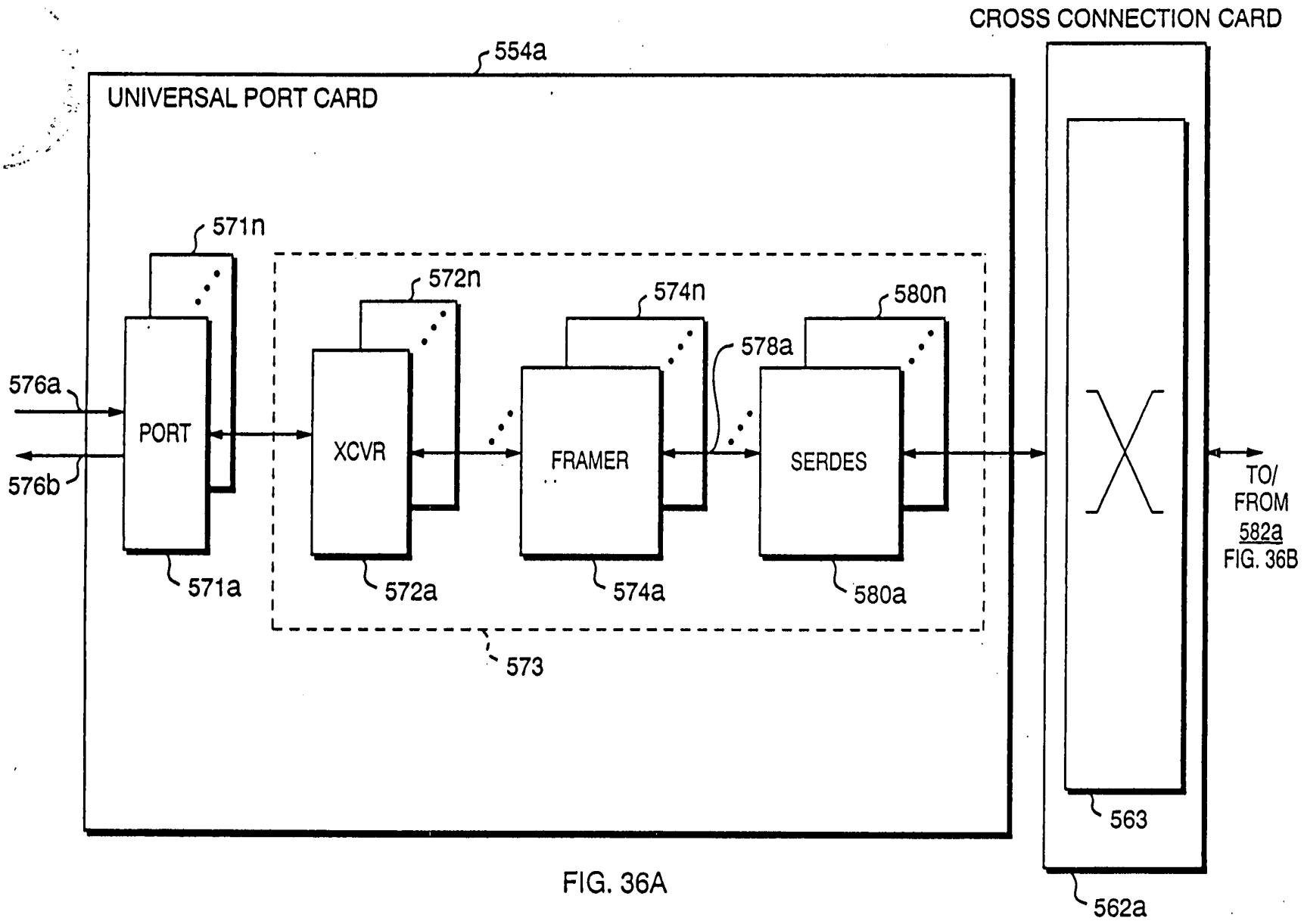


FIG. 36A

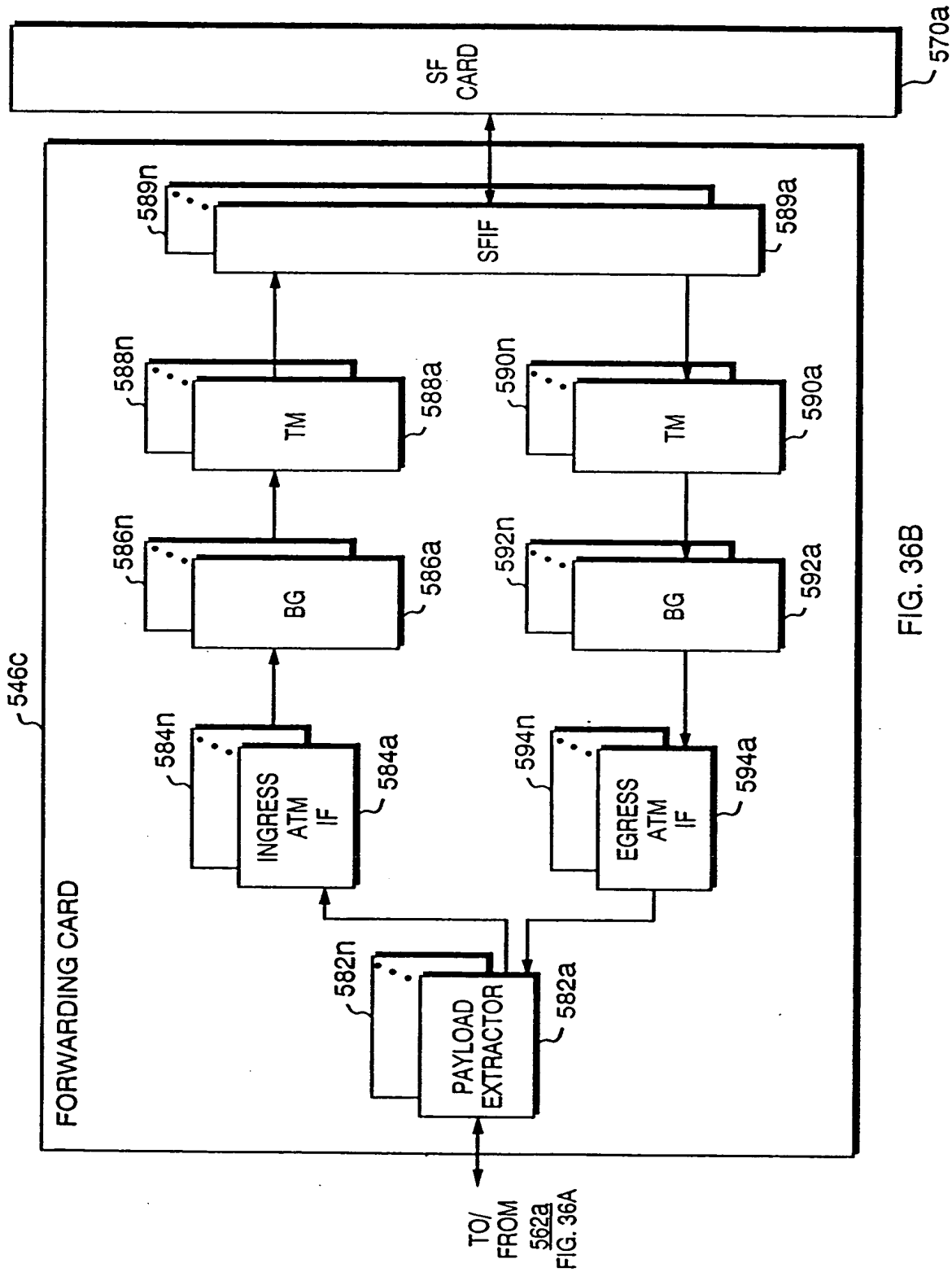

SF CARD
570a
FORWARDING CARD
546c
SFIF
589n
589a
TM
588n
588a
TM
590n
590a
BG
586n
586a
BG
592n
592a
INGRESS ATM IF
584n
584a
EGRESS ATM IF
594n
594a
PAYLOAD EXTRACTOR
582n
582a
TO/ FROM 562a FIG. 36A

FIG. 36B

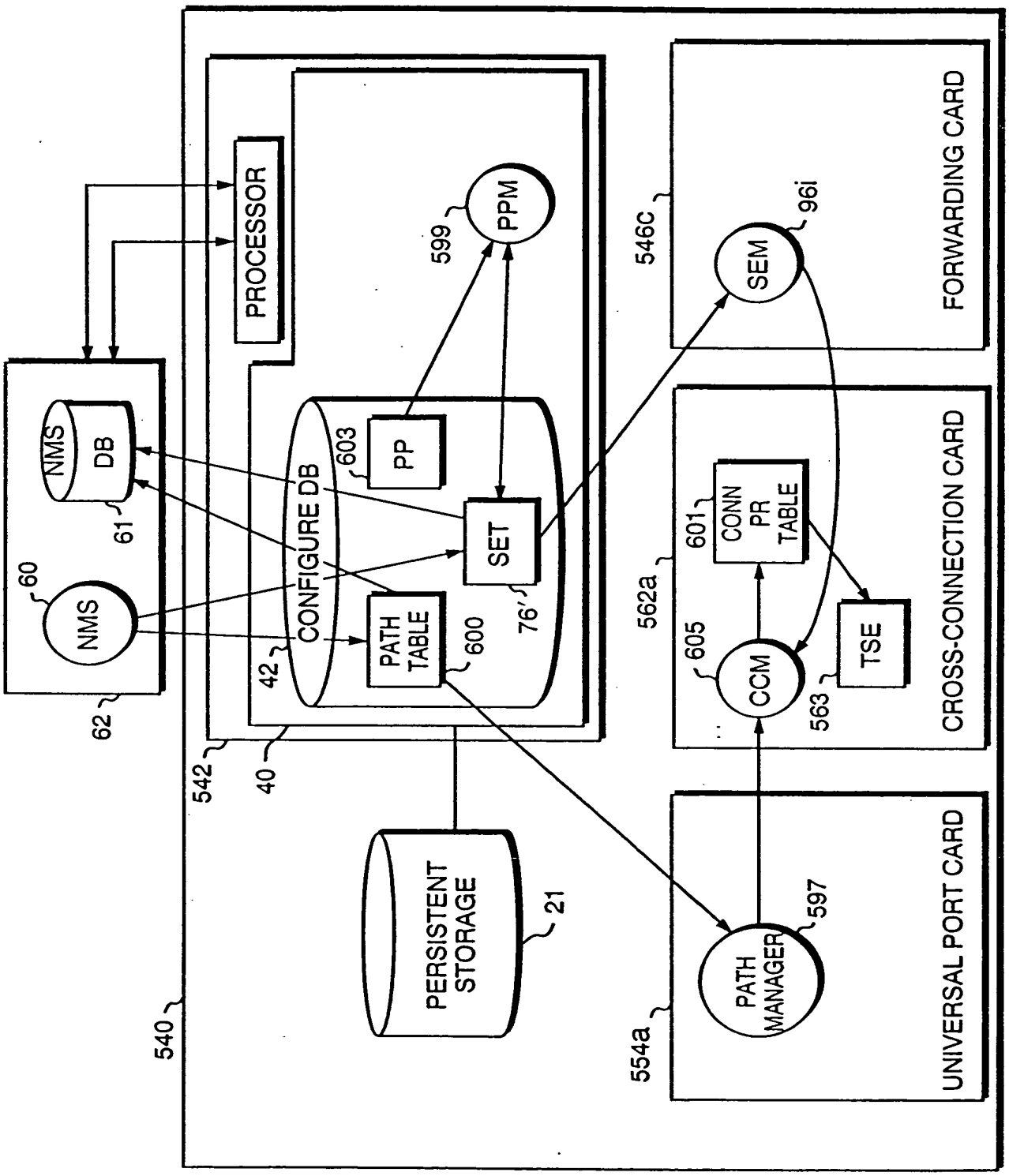

540
542
40
PROCESSOR
CONFIGURE DB
42
PP
603
PPM
599
SET
76'
PATH TABLE
600
NMS
DB
61
NMS
60
62
PERSISTENT STORAGE
21
546c
SEM
96i
FORWARDING CARD
562a
CONN PR TABLE
601
CCM
605
TSE
563
CROSS-CONNECTION CARD
554a
PATH MANAGER
597
UNIVERSAL PORT CARD

FIG. 37

PATH TABLE 600

602

PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	• • •
1666	1231	4	3	
⋮	⋮	⋮	⋮	⋮

FIG. 38

SERVICE END POINT TABLE 76'

	SE #	Q #	FC LID (606)	FC SLICE (608)	FC TIME SLOT (610)	PATH PID	...
604	878	1				1666	
	•	•	•	•	•	•	•
	•	•	•	•	•	•	•
	•	•	•	•	•	•	•

FIG. 39

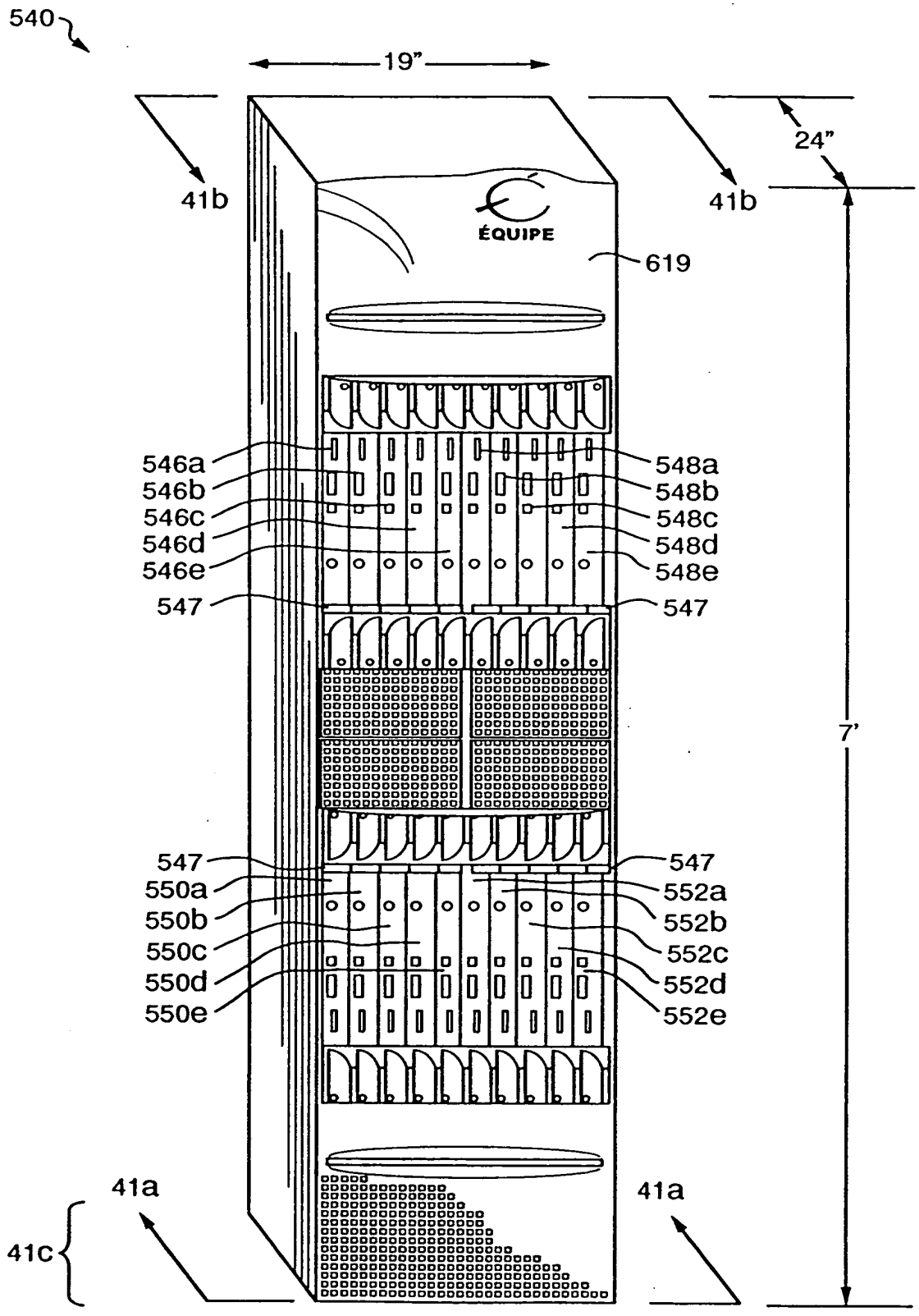

540
19"
24"
41b
41b
ÉQUIPE
619
546a
546b
546c
546d
546e
547
548a
548b
548c
548d
548e
547
7'
547
550a
550b
550c
550d
550e
547
552a
552b
552c
552d
552e
41a
41a
41c

FIG. 40

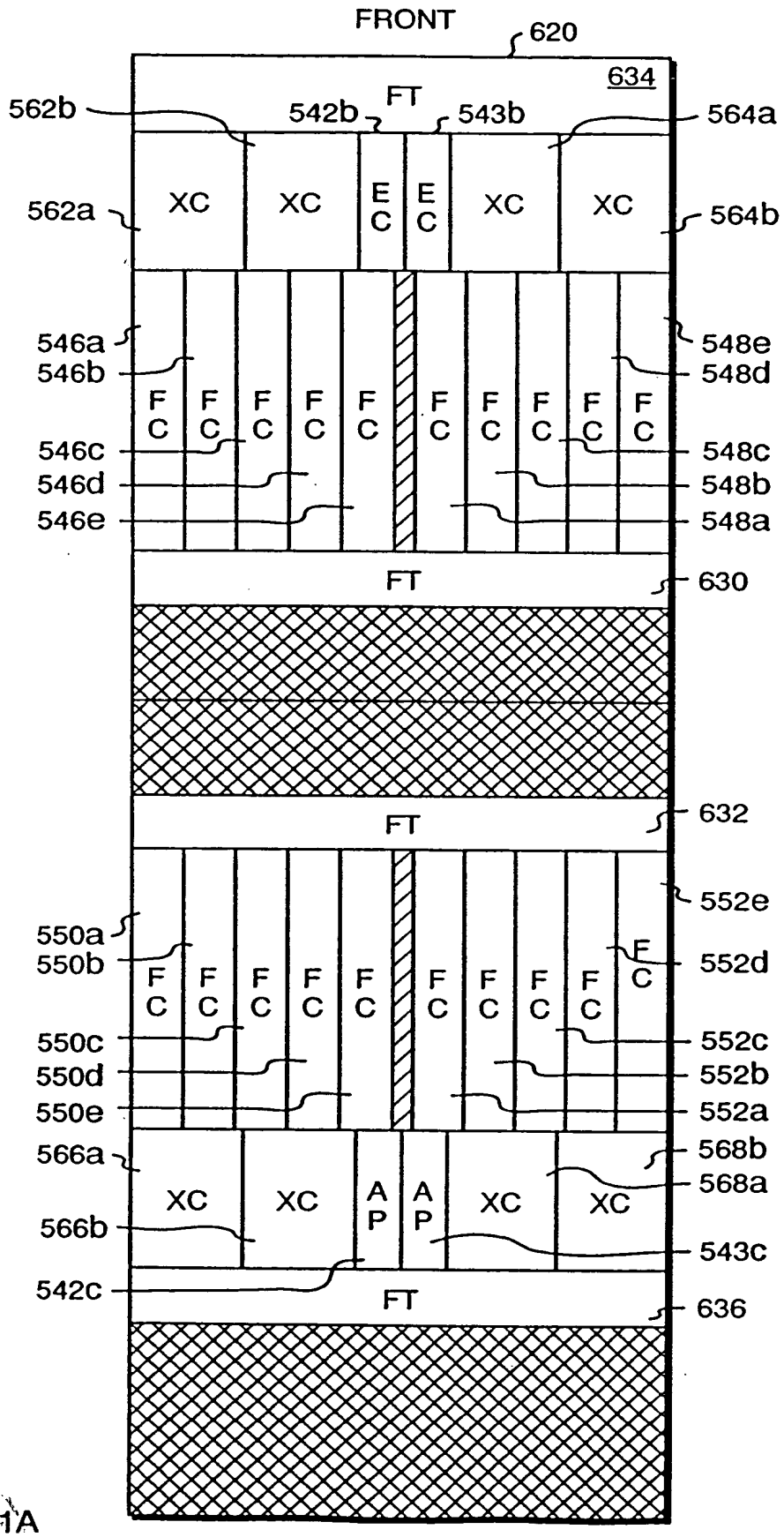

FRONT
620
634
FT
562b
542b
543b
564a
562a
XC
XC
EC
EC
XC
XC
564b
546a
546b
548e
548d
FC
546c
546d
546e
548c
548b
548a
FT
630
FT
632
552e
550a
550b
552d
550c
550d
550e
552c
552b
552a
566a
568b
568a
XC
AP
566b
543c
542c
FT
636

FIG. 41A

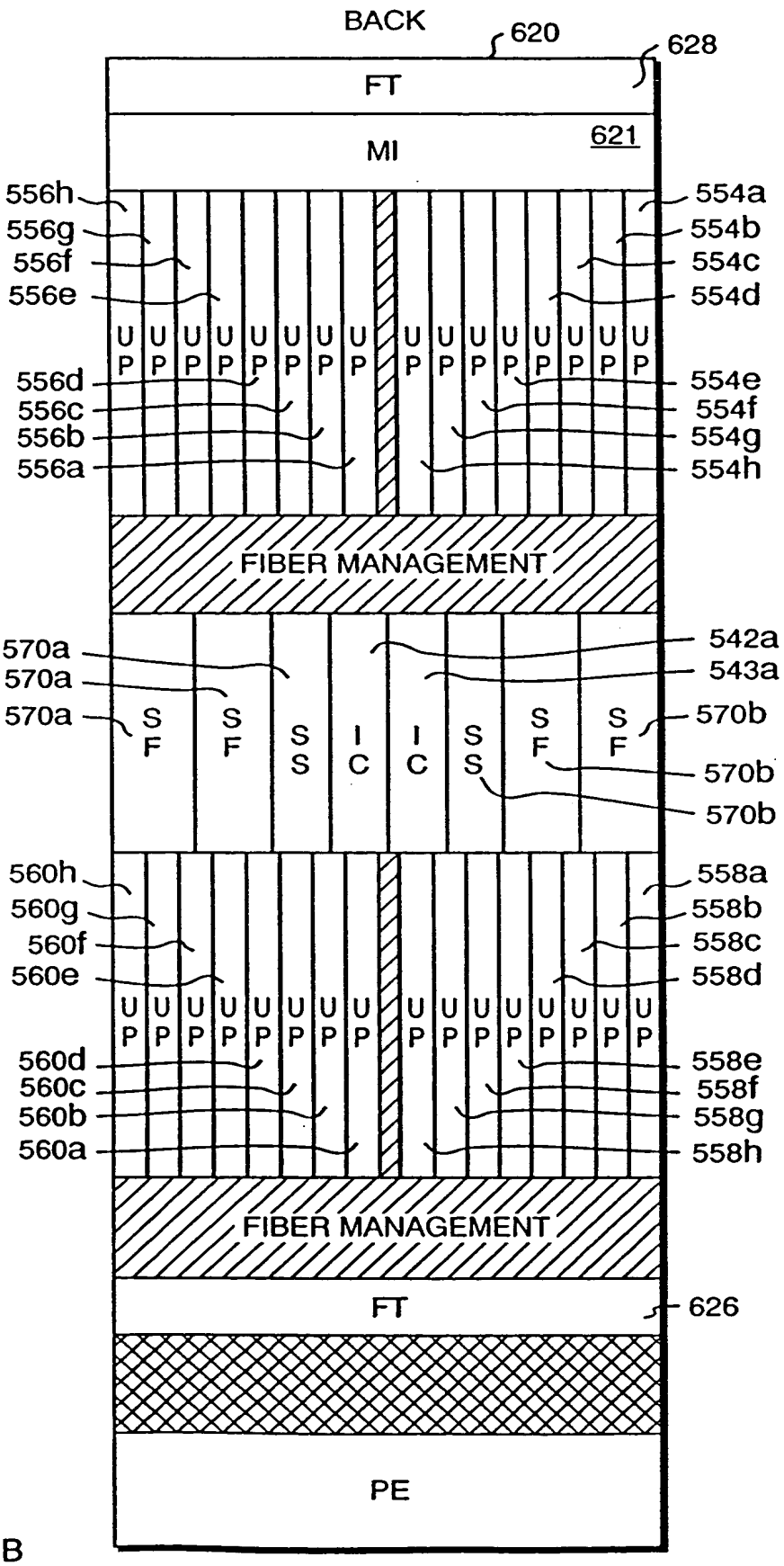

BACK
620
628
FT
MI
621
556h
556g
556f
556e
554a
554b
554c
554d
UP
556d
556c
556b
556a
554e
554f
554g
554h
FIBER MANAGEMENT
570a
570a
570a
542a
543a
SF
SS
IC
570b
570b
570b
560h
560g
560f
560e
558a
558b
558c
558d
560d
560c
560b
560a
558e
558f
558g
558h
FIBER MANAGEMENT
FT
626
PE

FIG. 41B

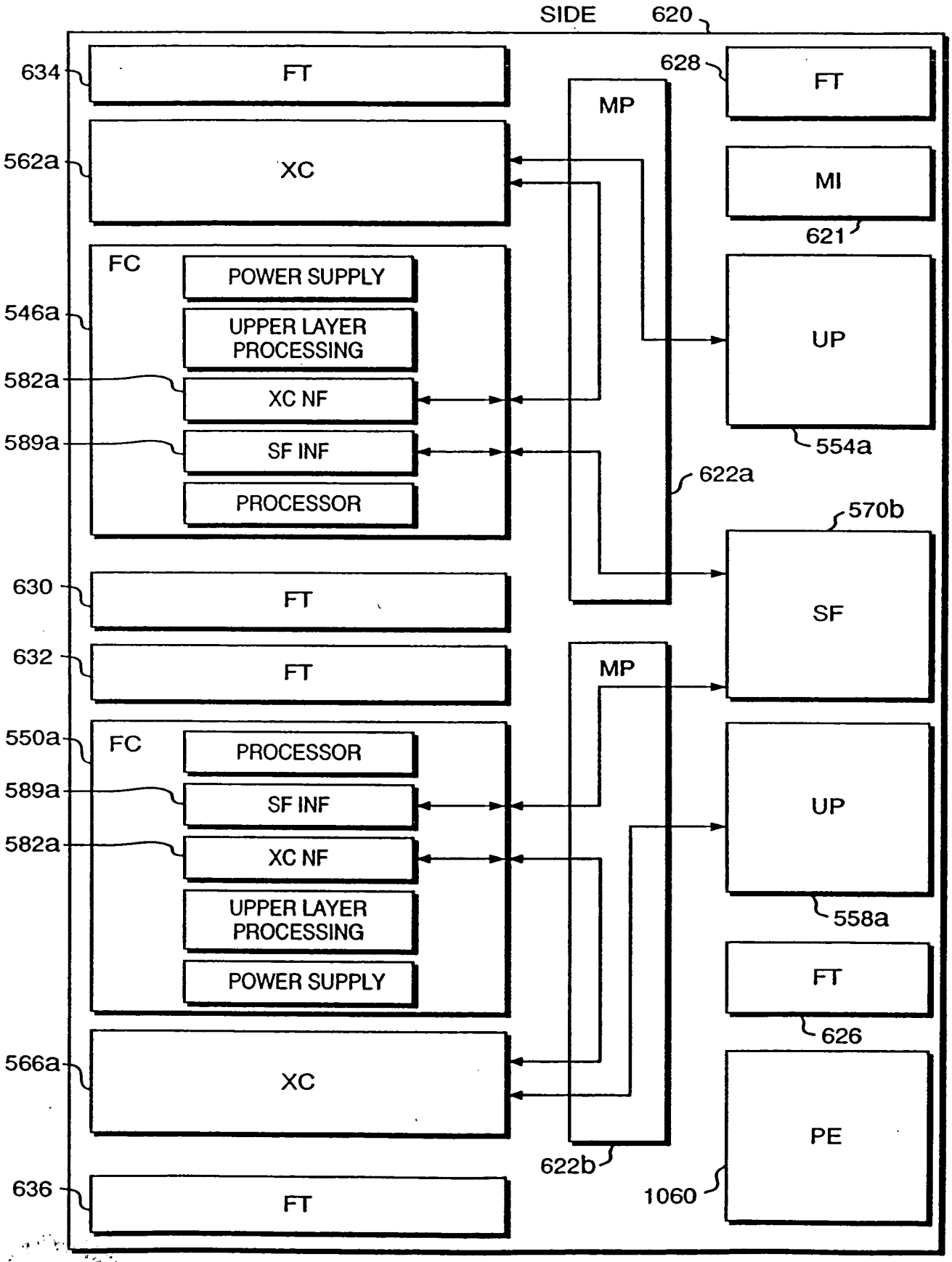

SIDE
620
634
FT
628
FT
MP
562a
XC
MI
621
FC
POWER SUPPLY
546a
UPPER LAYER PROCESSING
UP
582a
XC NF
589a
SF INF
554a
PROCESSOR
622a
570b
630
FT
SF
632
FT
MP
550a
FC
PROCESSOR
589a
SF INF
UP
582a
XC NF
UPPER LAYER PROCESSING
558a
POWER SUPPLY
FT
626
566a
XC
PE
622b
1060
636
FT

FIG. 41C

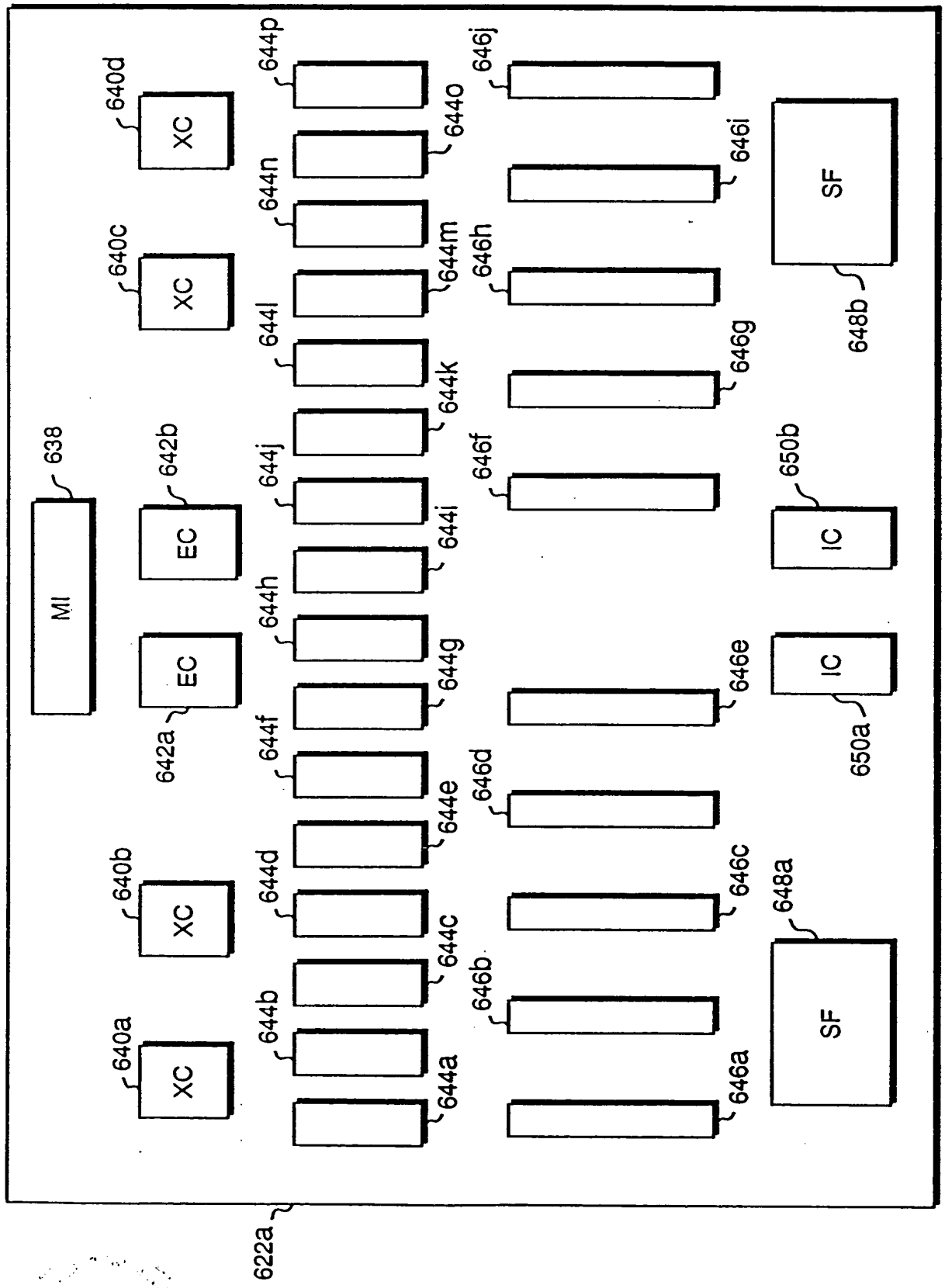

622a
MI
638
EC
642b
EC
642a
XC
640a
XC
640b
XC
640c
XC
640d
644a
644b
644c
644d
644e
644f
644g
644h
644i
644j
644k
644l
644m
644n
644o
644p
646a
646b
646c
646d
646e
646f
646g
646h
646i
646j
SF
648a
SF
648b
IC
650a
IC
650b

FIG. 42A

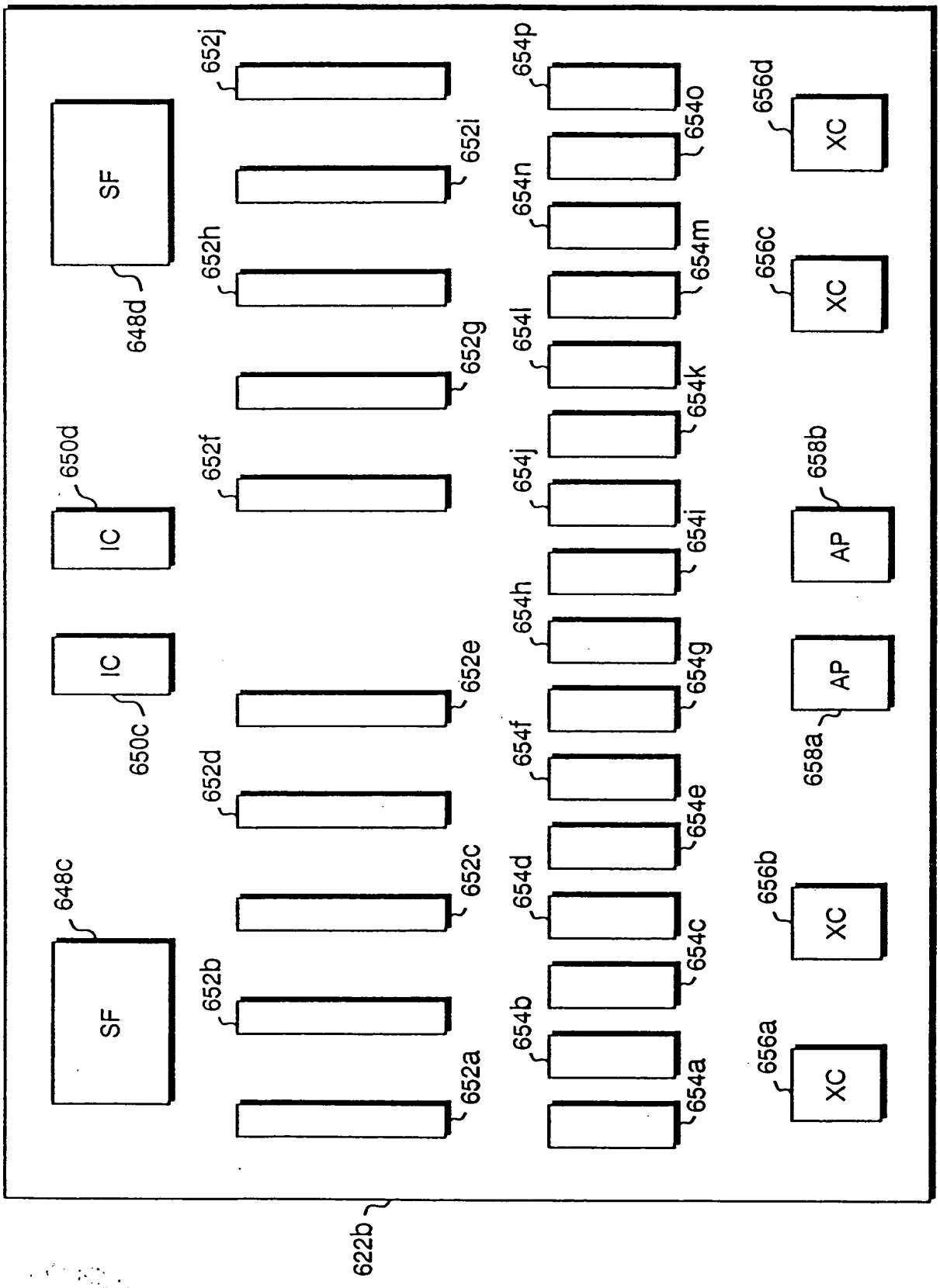

622b
SF
648c
SF
648d
IC
650c
IC
650d
652a
652b
652c
652d
652e
652f
652g
652h
652i
652j
654a
654b
654c
654d
654e
654f
654g
654h
654i
654j
654k
654l
654m
654n
654o
654p
656a
XC
656b
XC
656c
XC
656d
XC
658a
AP
658b
AP

FIG. 42B

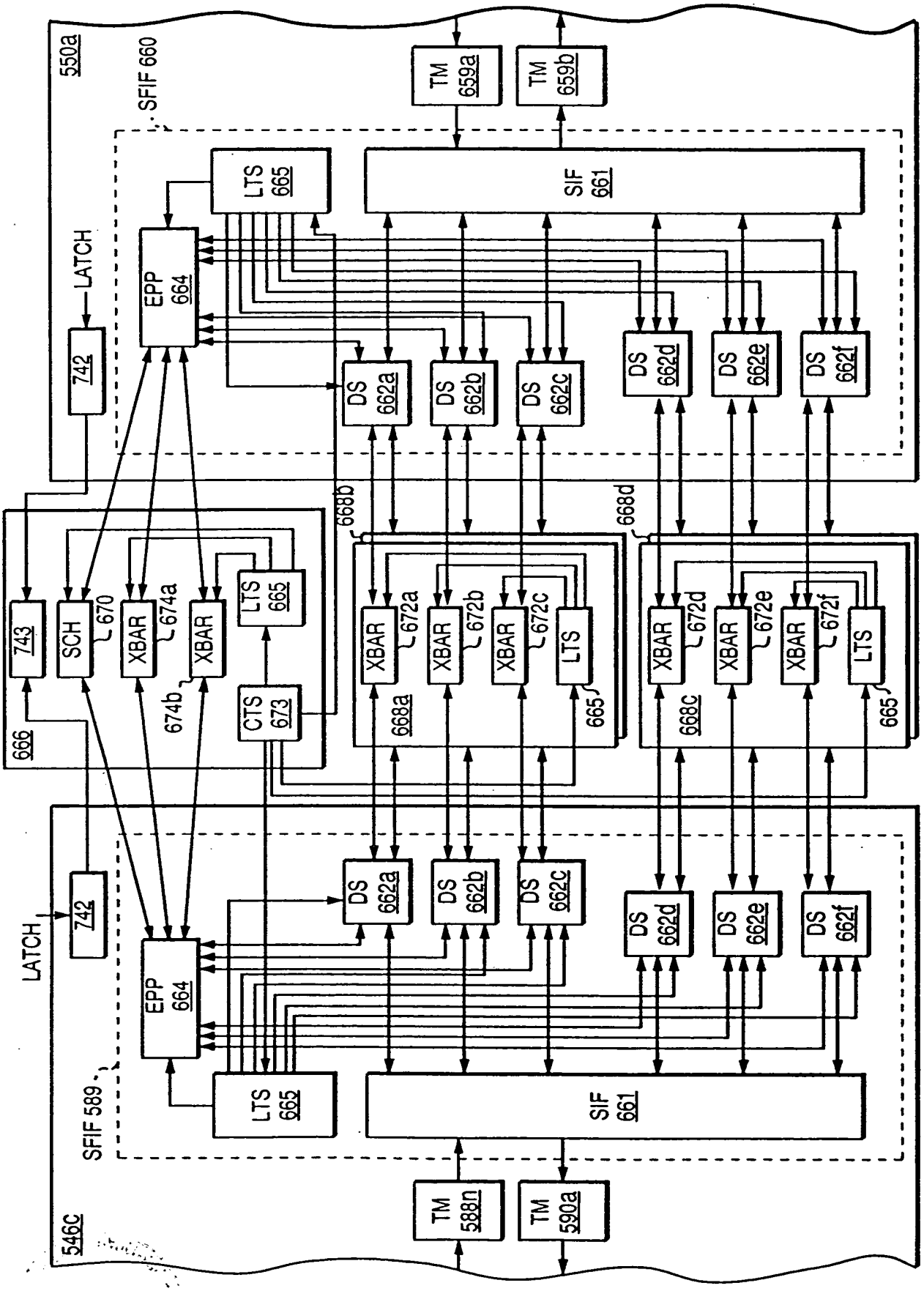

550a
SFIF 660
TM 659a
TM 659b
LTS 665
SIF 661
LATCH
742
EPP 664
DS 662a
DS 662b
DS 662c
DS 662d
DS 662e
DS 662f
668b
668d
743
SCH 670
XBAR 674a
XBAR
LTS 665
CTS 673
674b
666
XBAR 672a
XBAR 672b
XBAR 672c
LTS 665
668a
XBAR 672d
XBAR 672e
XBAR 672f
LTS 665
668c
SFIF 589
546C
TM 588n
TM 590a

FIG. 43

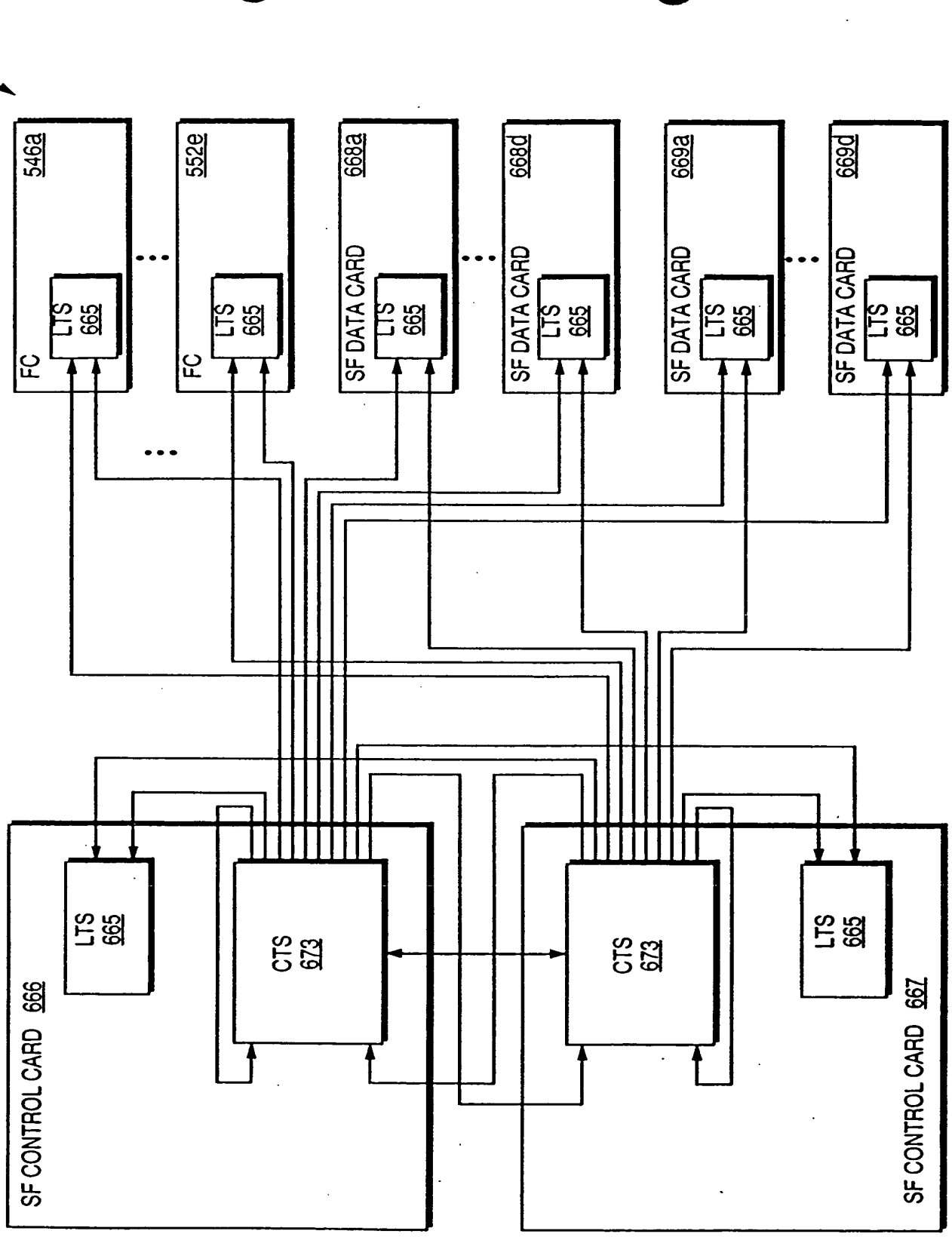

640
546a
FC
LTS 665
552e
FC
LTS 665
668a
SF DATA CARD
LTS 665
668d
SF DATA CARD
LTS 665
669a
SF DATA CARD
LTS 665
669d
SF DATA CARD
LTS 665
LTS 665
CTS 673
CTS 673
LTS 665
SF CONTROL CARD 666
SF CONTROL CARD 667

FIG. 44

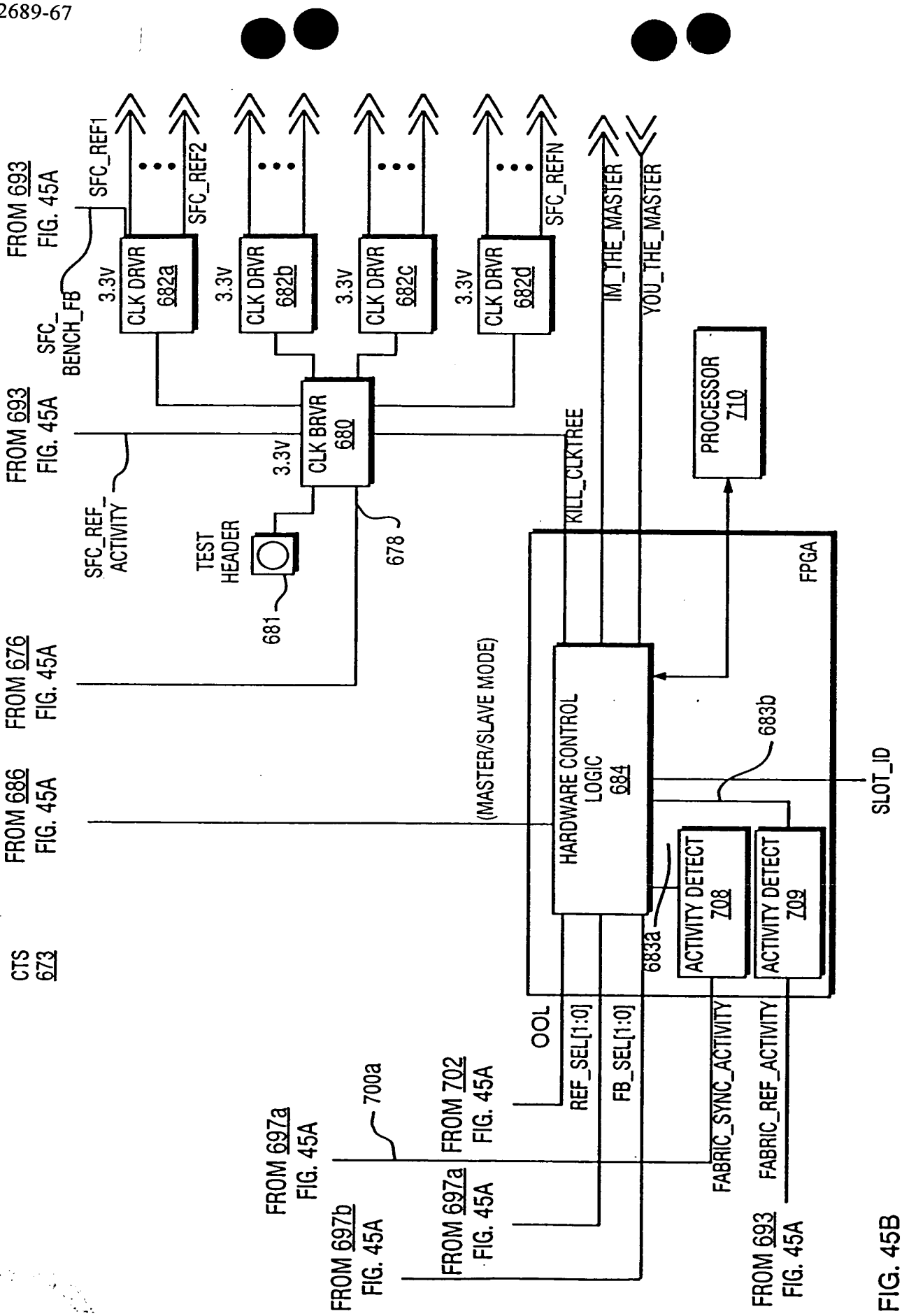

FROM 693 FIG. 45A
SFC_REF1
SFC_REF2
SFC_REFN
3.3V
CLK DRVR 682a
CLK DRVR 682b
CLK DRVR 682C
CLK DRVR 682d
SFC_ BENCH_FB
FROM 693 FIG. 45A
CLK BRVR 680
3.3V
IM_THE_MASTER
YOU_THE_MASTER
PROCESSOR Z10
KILL_CLKTREE
SFC_REF_ ACTIVITY
TEST HEADER
681
678
FROM 676 FIG. 45A
FROM 686 FIG. 45A
CTS 673
(MASTER/SLAVE MODE)
HARDWARE CONTROL LOGIC 684
FPGA
683b
SLOT_ID
683a
ACTIVITY DETECT Z08
ACTIVITY DETECT Z09
OOL
REF_SEL[1:0]
FB_SEL[1:0]
FABRIC_SYNC_ACTIVITY
FABRIC_REF_ACTIVITY
FROM 697a FIG. 45A
700a
FROM 702 FIG. 45A
FROM 697b FIG. 45A
FROM 697a FIG. 45A
FROM 693 FIG. 45A

FIG. 45B

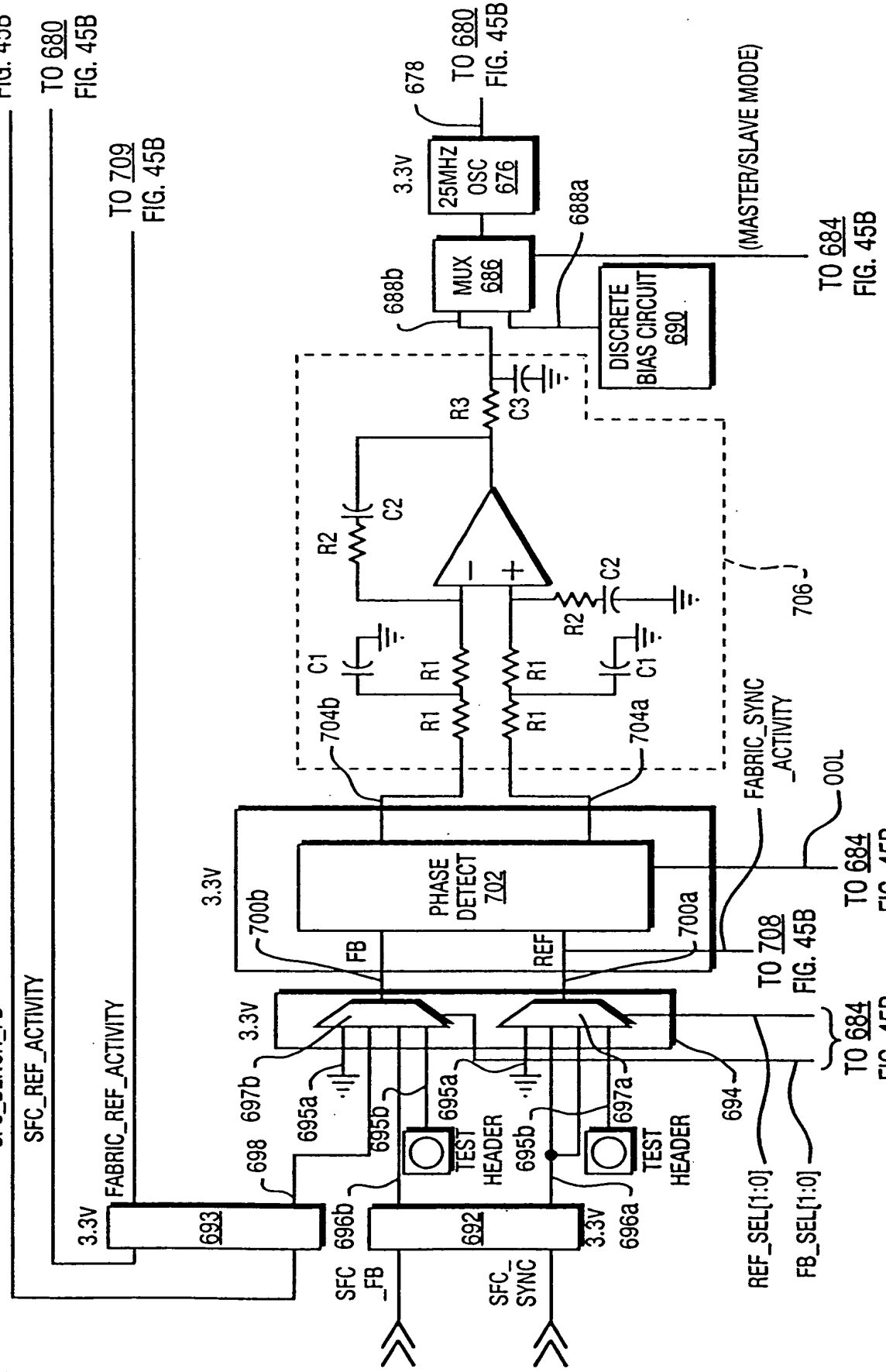

TO 682a FIG. 45B
TO 680 FIG. 45B
TO 709 FIG. 45B
CTS 673
SFC_BENCH_FB
SFC_REF_ACTIVITY
FABRIC_REF_ACTIVITY
3.3V
693
692
SFC _FB
SFC_ SYNC
696b
696a
698
697b
697a
695a
695b
TEST HEADER
694
REF_SEL[1:0]
FB_SEL[1:0]
TO 684 FIG. 45B
TO 708 FIG. 45B
700b
700a
FB
REF
PHASE DETECT 702
FABRIC_SYNC _ACTIVITY
OOL
704b
704a
706
C1
R1
R2
C2
R3
C3
678
25MHZ OSC 676
MUX 686
688a
688b
DISCRETE BIAS CIRCUIT 690
(MASTER/SLAVE MODE)

FIG. 45A

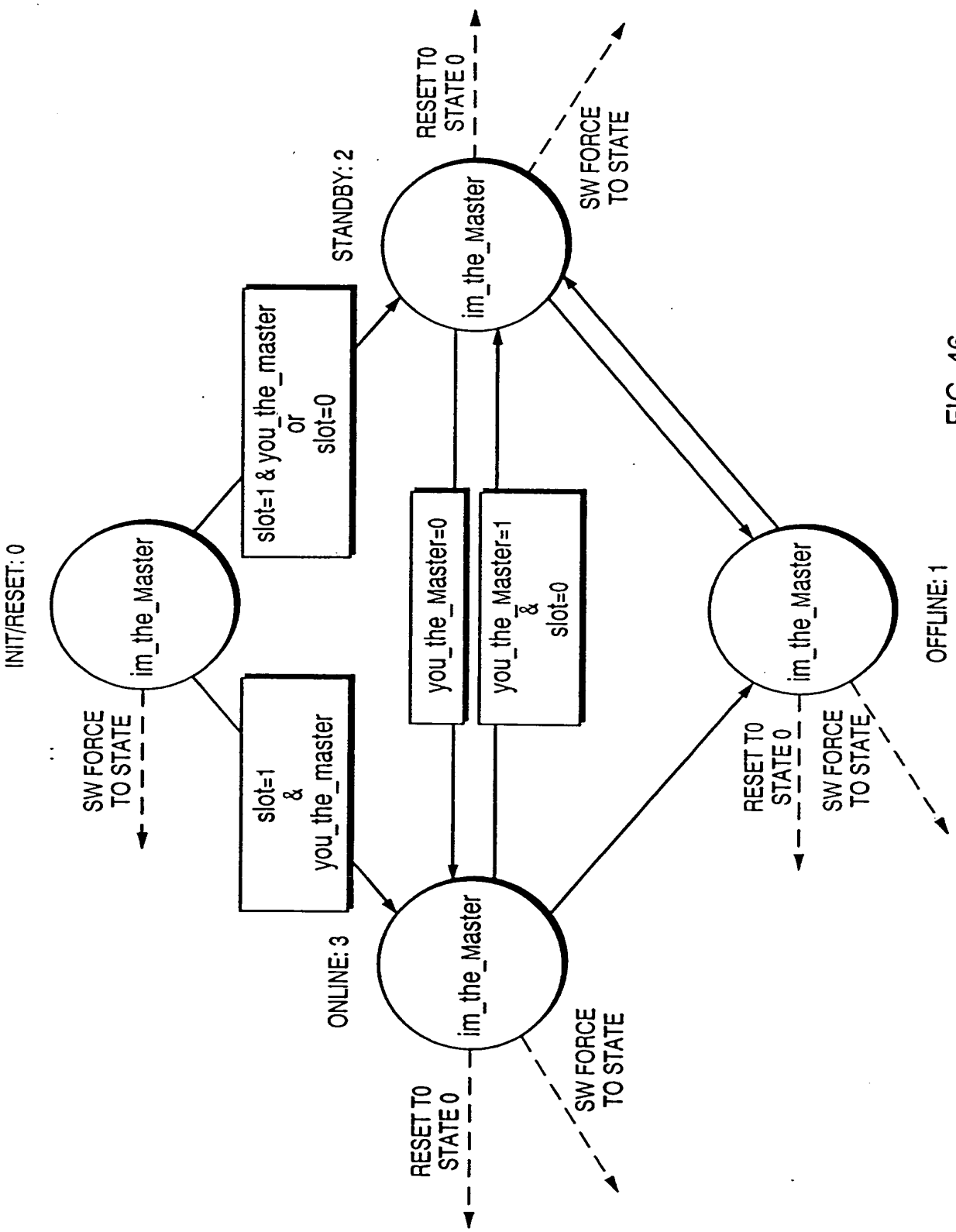

INIT/RESET: 0
im_the_Master
SW FORCE TO STATE
slot=1 & you_the_master or slot=0
STANDBY: 2
im_the_Master
RESET TO STATE 0
SW FORCE TO STATE
slot=1 & you_the_master
ONLINE: 3
im_the_Master
RESET TO STATE 0
SW FORCE TO STATE
you_the_Master=0
you_the_Master=1 & slot=0
im_the_Master
OFFLINE: 1
RESET TO STATE 0
SW FORCE TO STATE

FIG. 46

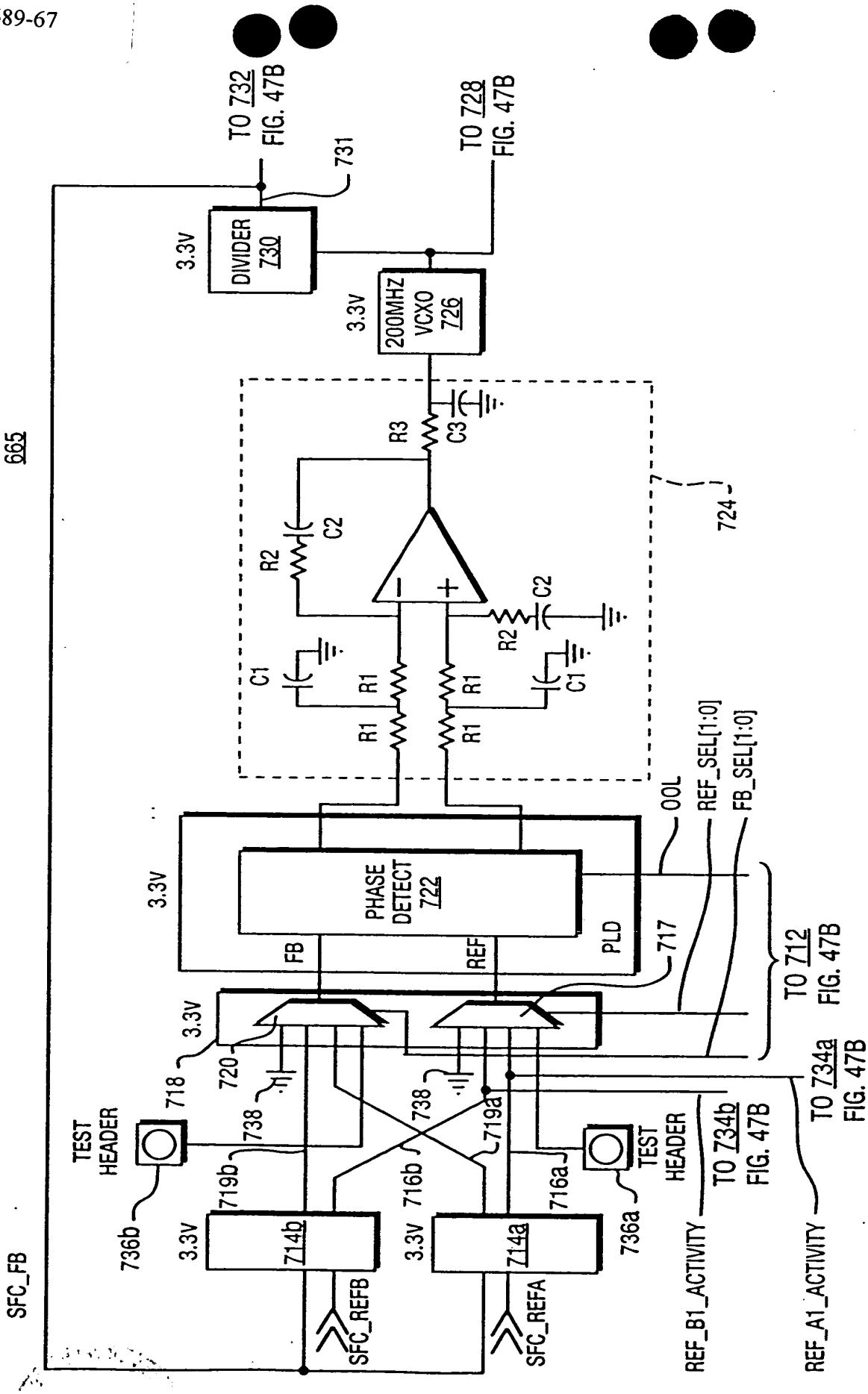

LTS
665
SFC_FB
TO 732
FIG. 47B
731
TO 728
FIG. 47B
3.3V
DIVIDER
730
3.3V
200MHZ
VCXO
726
R3
C3
724
C2
R2
C1
R1
PHASE
DETECT
722
FB
REF
PLD
717
OOL
REF_SEL[1:0]
FB_SEL[1:0]
TO 712
FIG. 47B
718
720
738
719a
719b
716b
716a
TEST
HEADER
736b
736a
714b
714a
SFC_REFB
SFC_REFA
TO 734b
FIG. 47B
TO 734a
FIG. 47B
REF_B1_ACTIVITY
REF_A1_ACTIVITY

FIG. 47A

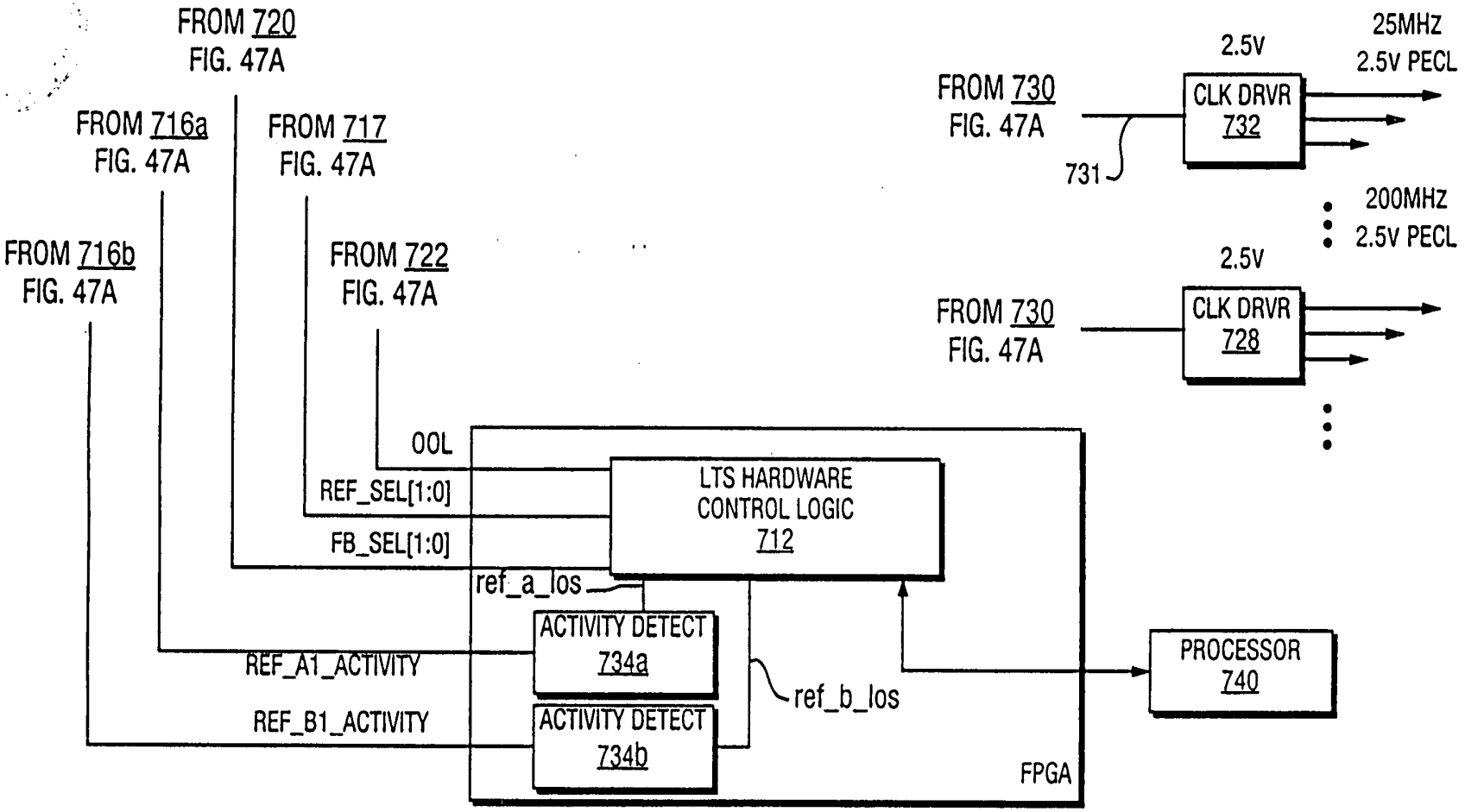


FIG. 47B

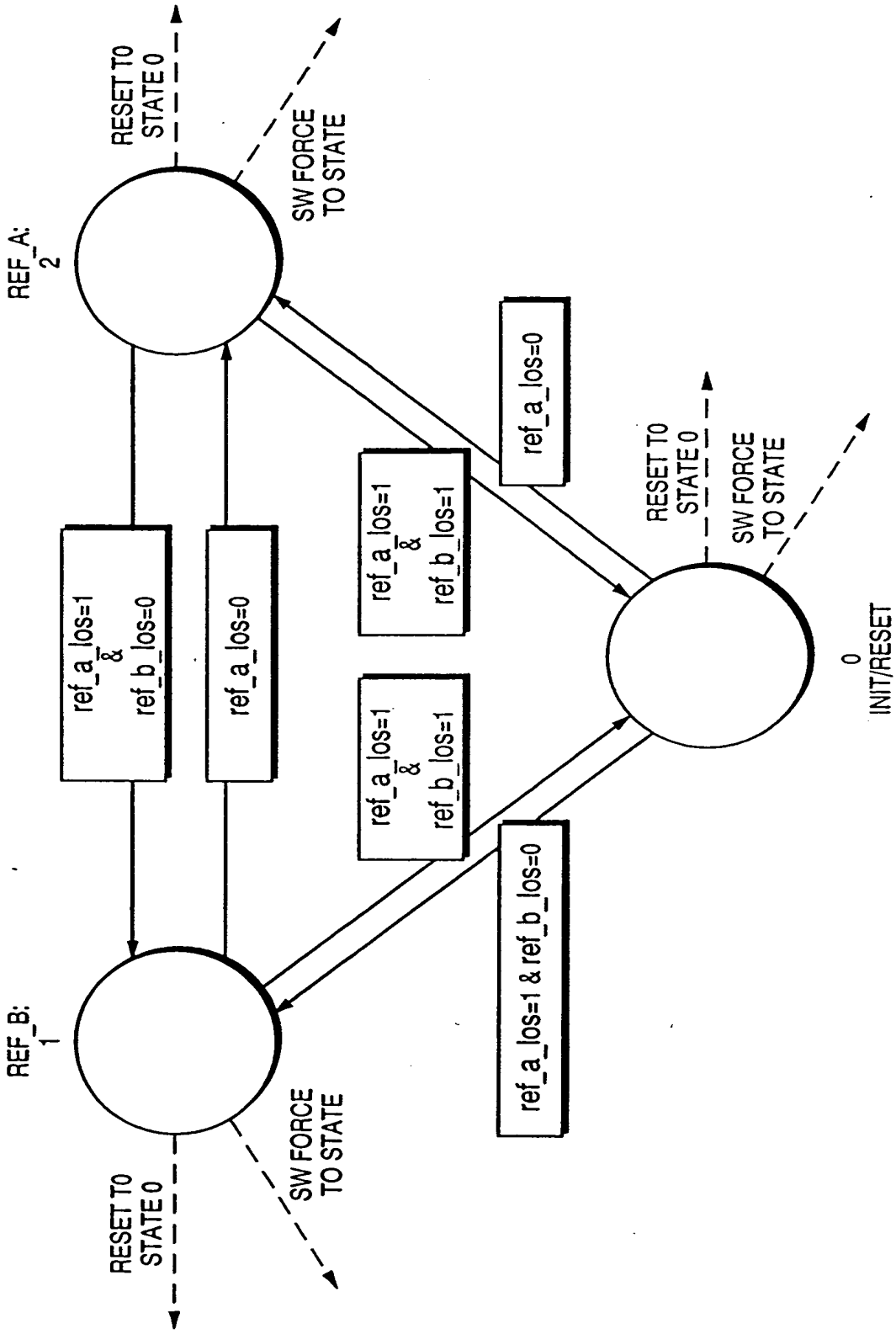

REF_A:
2
REF_B:
1
0
INIT/RESET
RESET TO
STATE 0
SW FORCE
TO STATE
ref_a_los=1
&
ref_b_los=0
ref_a_los=0
ref_a_los=1
&
ref_b_los=1
ref_a_los=1 & ref_b_los=0

FIG. 48

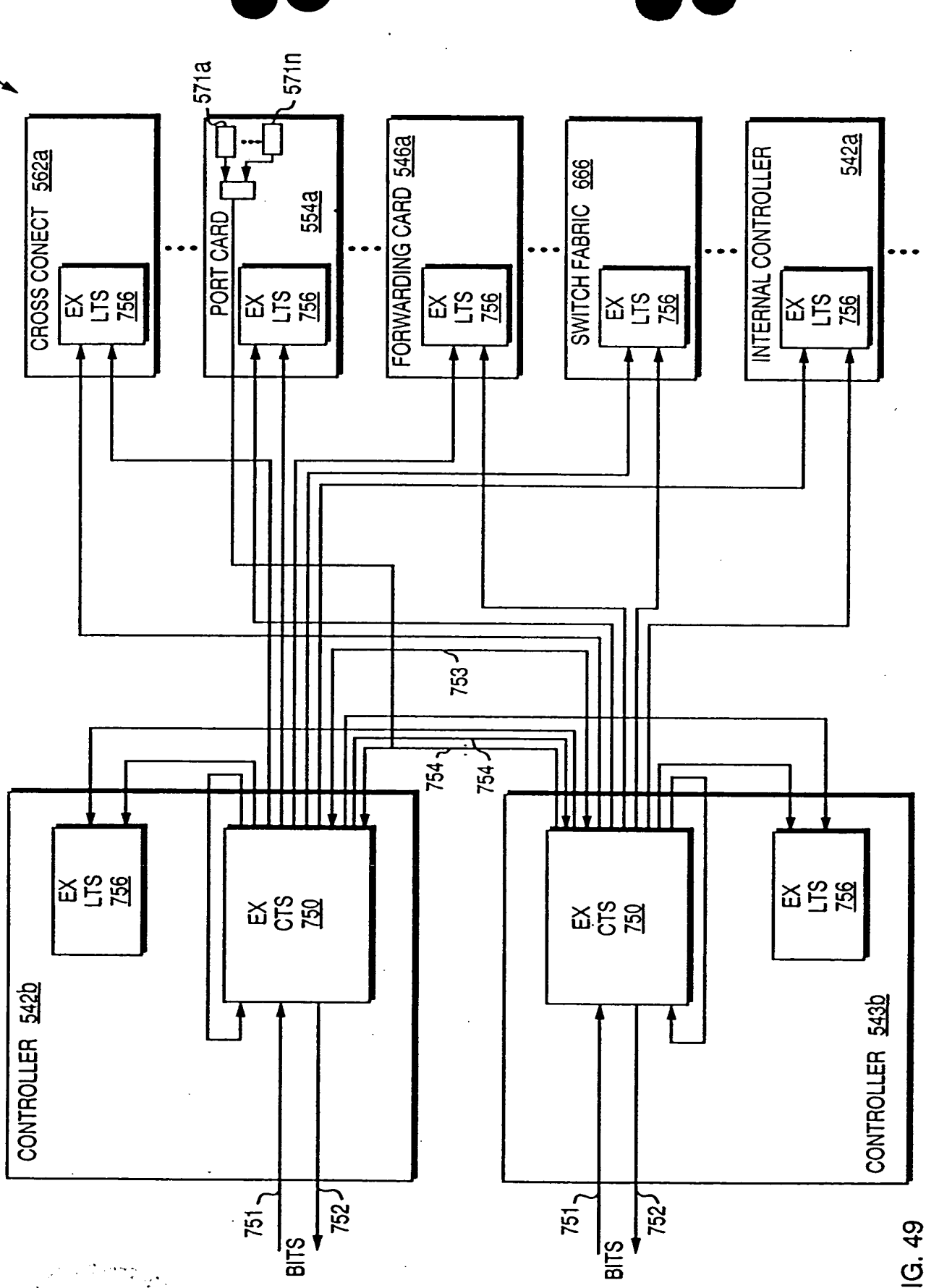

540
571a
571n
CROSS CONECT 562a
EX LTS 756
PORT CARD 554a
EX LTS 756
FORWARDING CARD 546a
EX LTS 756
SWITCH FABRIC 666
EX LTS 756
INTERNAL CONTROLLER 542a
EX LTS 756
753
754
754
CONTROLLER 542b
EX LTS 756
EX CTS 750
751
BITS
752
CONTROLLER 543b
EX CTS 750
EX LTS 756
751
BITS
752

FIG. 49

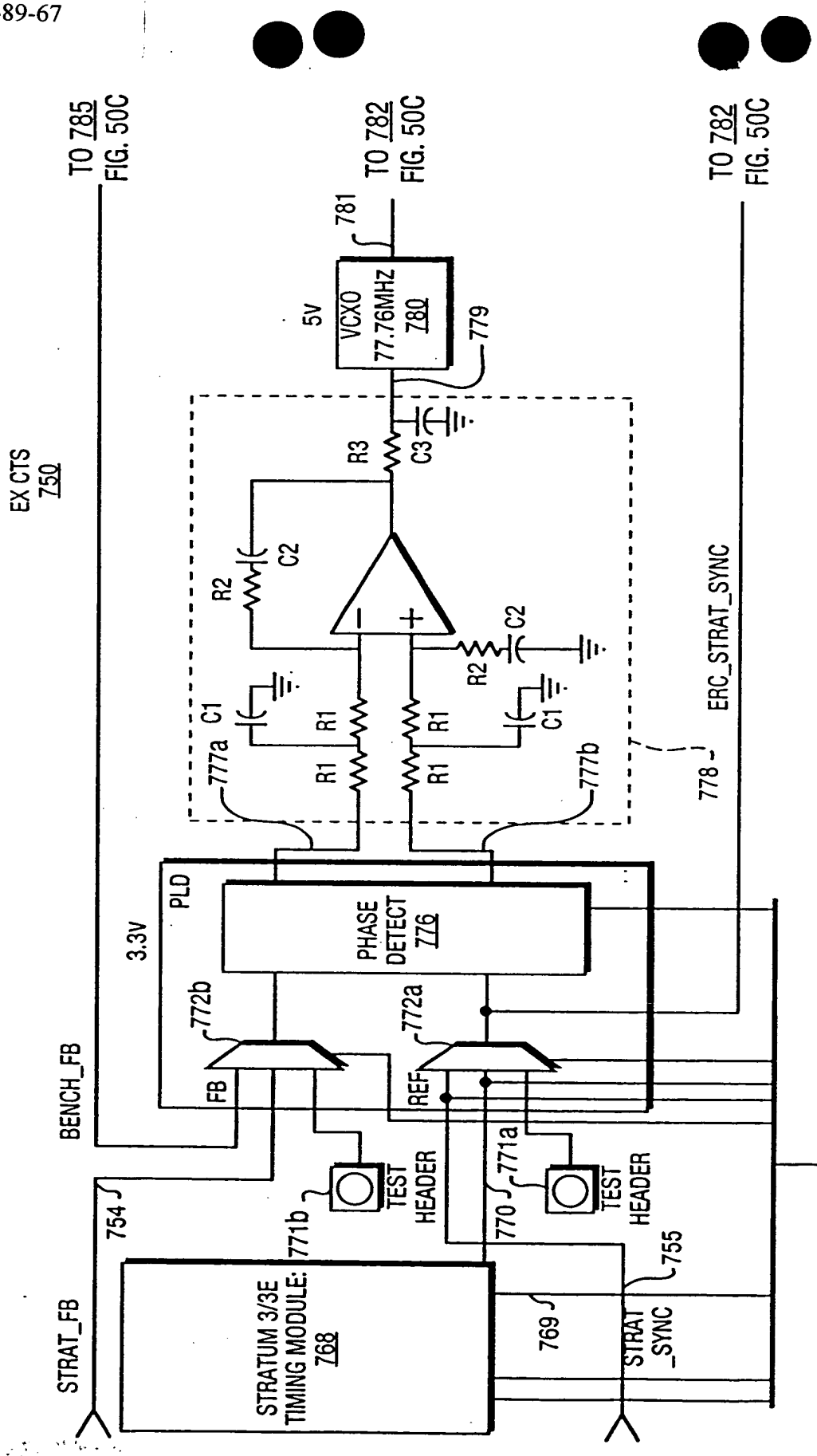

TO 785 FIG. 50C
TO 782 FIG. 50C
TO 782 FIG. 50C
781
5V
VCXO 77.76MHz 780
779
EX CTS 750
R3
C3
R2
C2
R2
C2
C1
R1
R1
R1
R1
C1
777a
777b
778
ERC_STRAT_SYNC
PLD
3.3V
PHASE DETECT 776
772b
772a
BENCH_FB
FB
REF
754
771b
TEST HEADER
771a
TEST HEADER
770
755
769
STRAT_FB
STRATUM 3/3E TIMING MODULE: 768
STRAT_SYNC
TO FIG. 50B

FIG. 50A

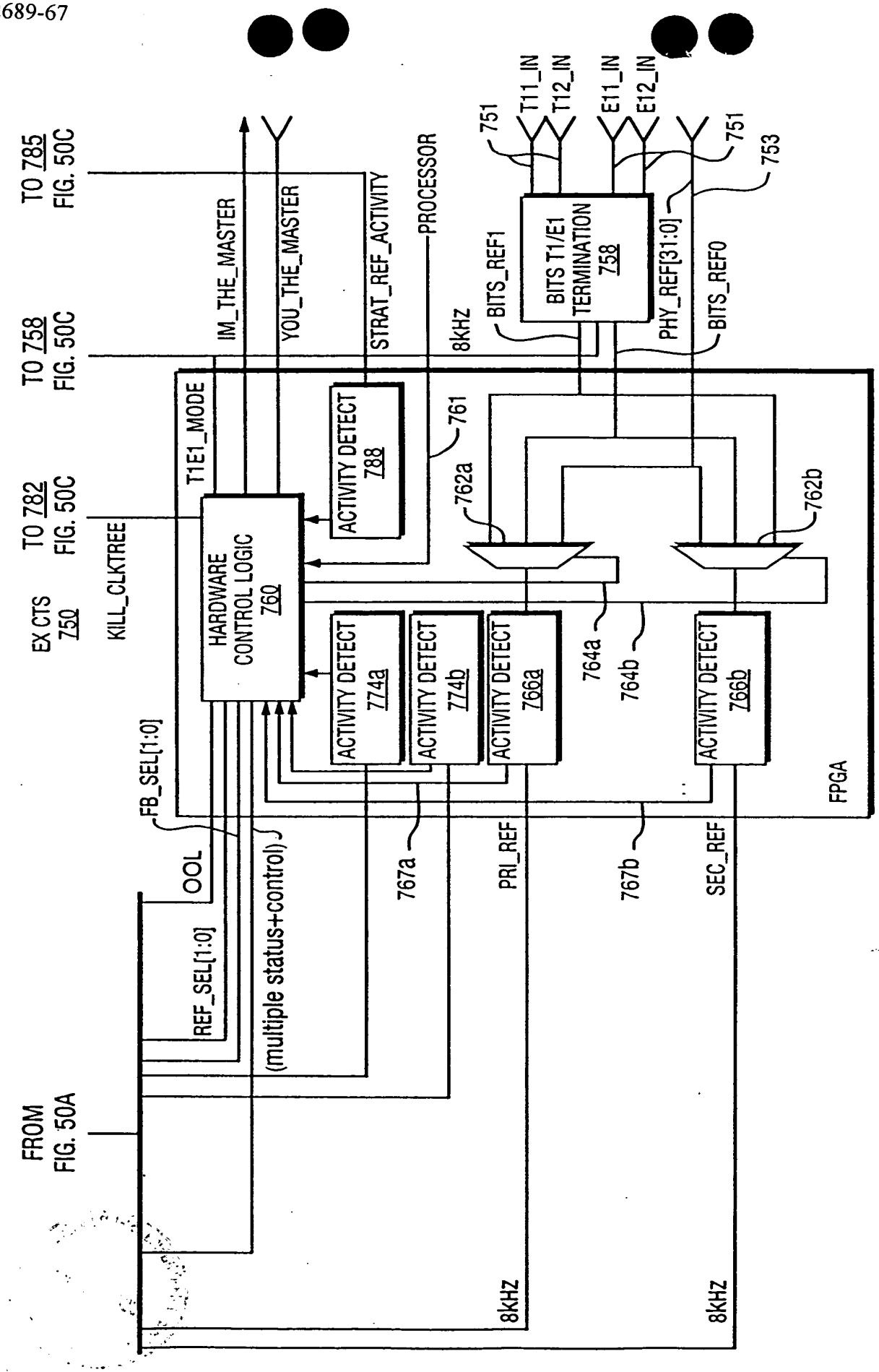

TO 785 FIG. 50C
TO 758 FIG. 50C
TO 782 FIG. 50C
FROM FIG. 50A
IM_THE_MASTER
YOU_THE_MASTER
STRAT_REF_ACTIVITY
PROCESSOR
8kHZ
T11_IN
T12_IN
E11_IN
E12_IN
751
753
BITS_REF1
BITS_REF0
BITS T1/E1 TERMINATION 758
PHY_REF[31:0]
T1E1_MODE
KILL_CLKTREE
EX CTS 750
HARDWARE CONTROL LOGIC 760
ACTIVITY DETECT 788
761
762a
762b
764a
764b
ACTIVITY DETECT 774a
ACTIVITY DETECT 774b
ACTIVITY DETECT 766a
ACTIVITY DETECT 766b
FB_SEL[1:0]
OOL
REF_SEL[1:0]
(multiple status+control)
767a
767b
PRI_REF
SEC_REF
FPGA
8kHZ
8kHZ

FIG. 50B

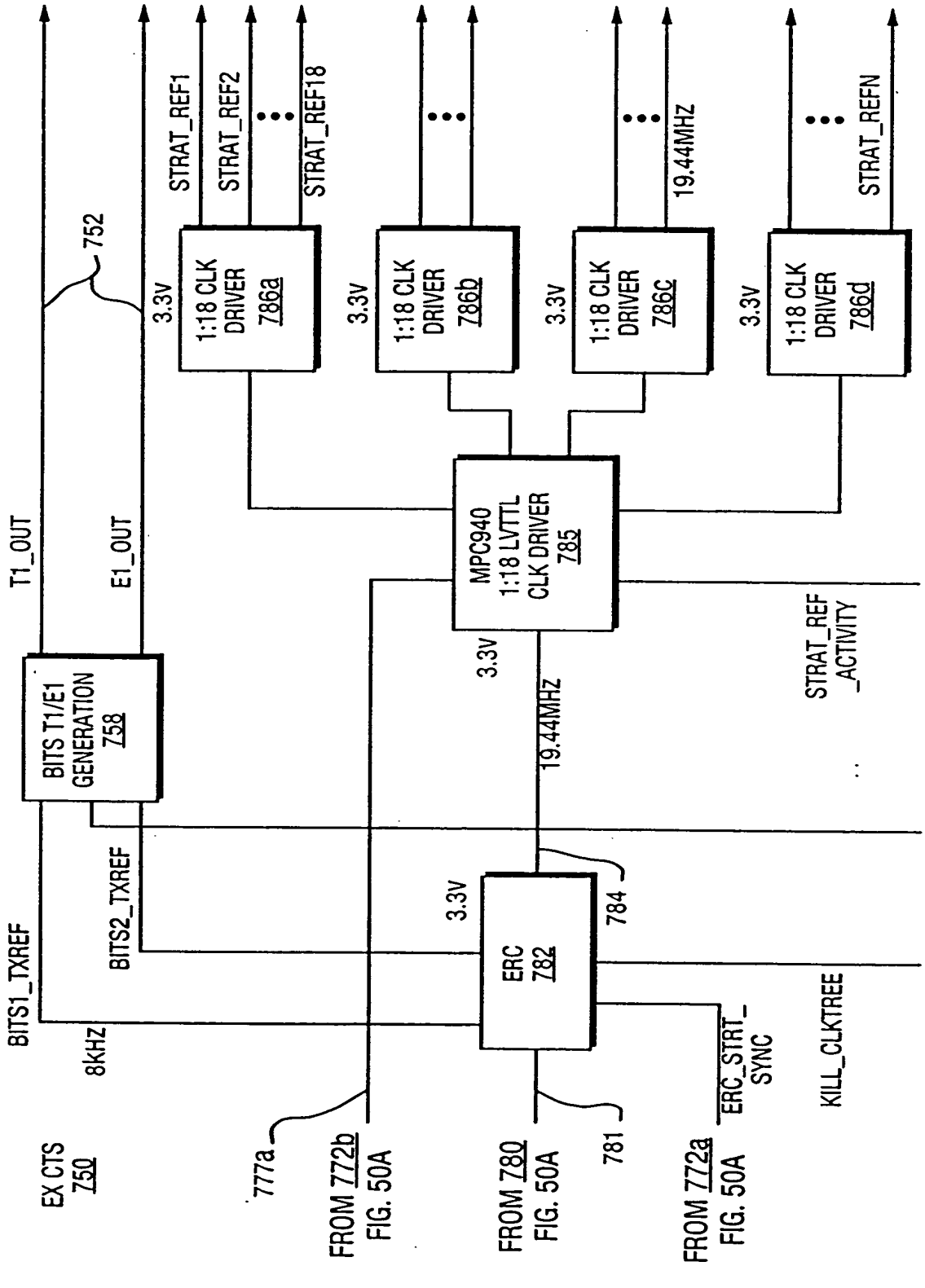

EX CTS Z50
BITS1_TXREF
8KHZ
BITS2_TXREF
BITS T1/E1 GENERATION Z58
T1_OUT
E1_OUT
752
3.3V
1:18 CLK DRIVER Z86a
STRAT_REF1
STRAT_REF2
STRAT_REF18
1:18 CLK DRIVER Z86b
1:18 CLK DRIVER Z86C
19.44MHZ
1:18 CLK DRIVER Z86d
STRAT_REFN
MPC940 1:18 LVTTL CLK DRIVER Z85
STRAT_REF _ACTIVITY
FROM Z88 FIG. 50B
19.44MHZ
ERC Z82
784
777a
FROM Z72b FIG. 50A
FROM Z80 FIG. 50A
781
FROM Z72a FIG. 50A
ERC_STRT_ SYNC
KILL_CLKTREE
FROM Z58 FIG. 50B
FROM Z60 FIG. 50B

FIG. 50C

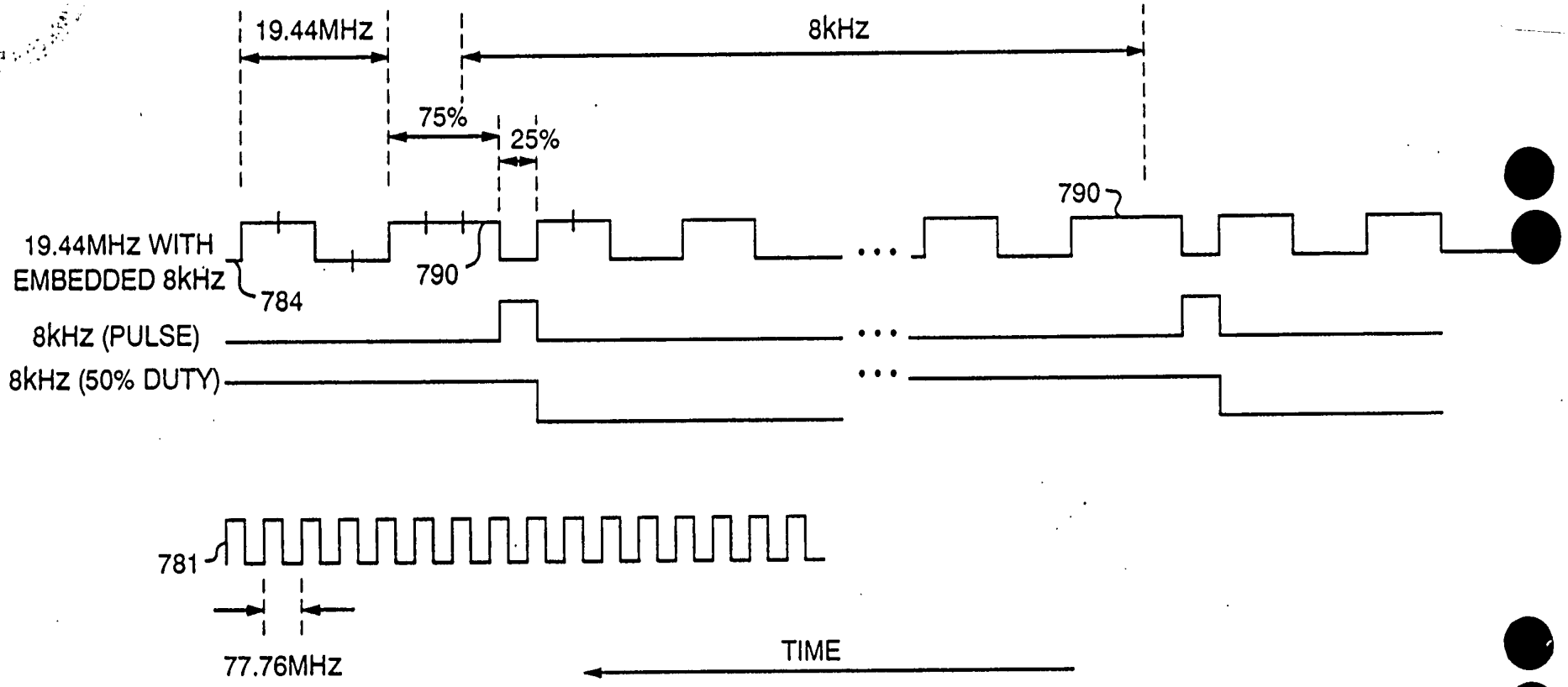

19.44MHz
8kHz
75%
25%
790
19.44MHz WITH
EMBEDDED 8kHz
784
790
8kHz (PULSE)
8kHz (50% DUTY)
781
77.76MHz
TIME

FIG. 51

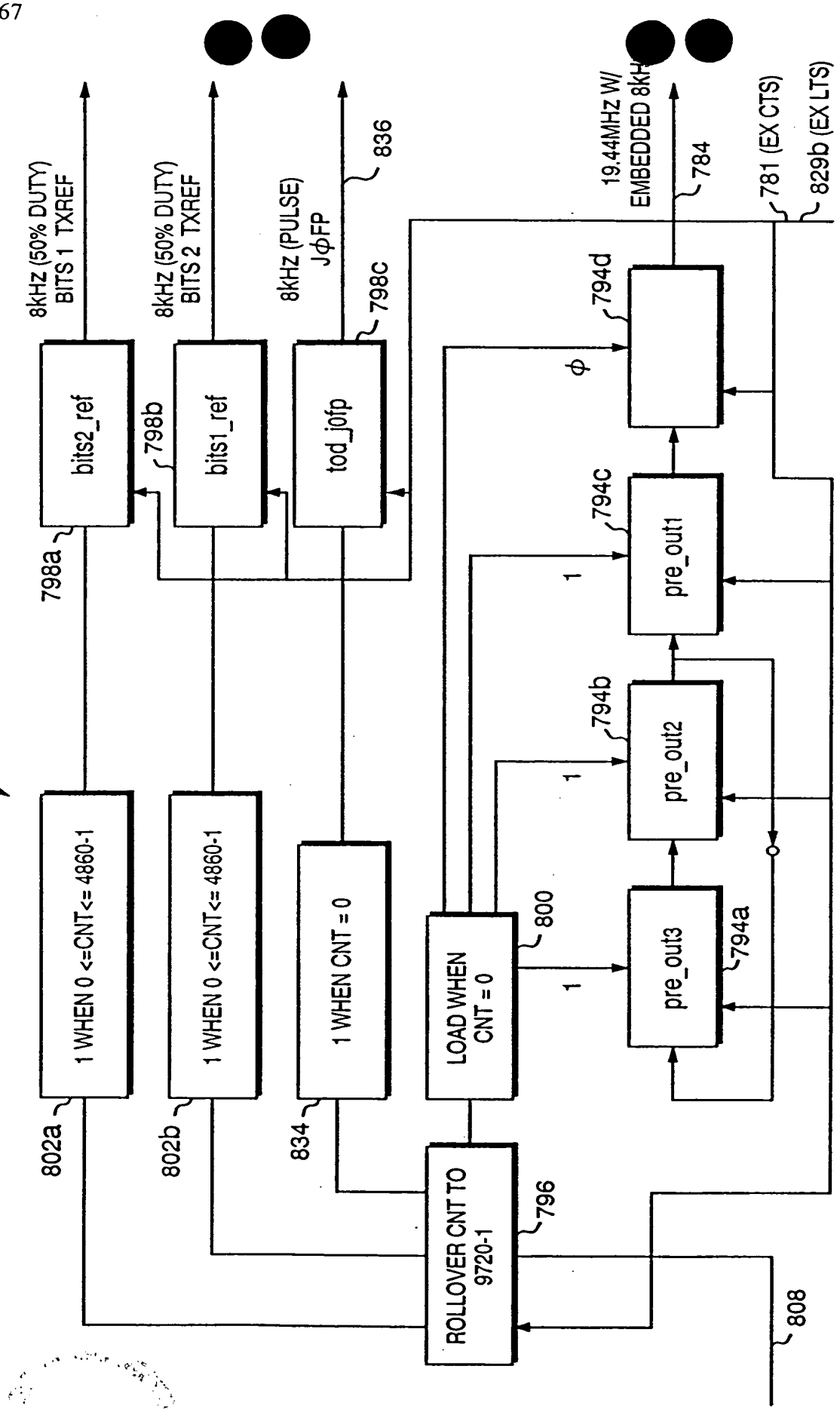

792
8kHz (50% DUTY) BITS 1 TXREF
8kHz (50% DUTY) BITS 2 TXREF
8kHz (PULSE) JφFP
836
19.44MHz W/ EMBEDDED 8kH
784
781 (EX CTS)
829b (EX LTS)
77.76 MHZ
798c
794d
φ
bits2_ref
798b
bits1_ref
tod_jofp
798a
794c
pre_out1
1
794b
pre_out2
1
1 WHEN 0 <=CNT<= 4860-1
1 WHEN 0 <=CNT<= 4860-1
1 WHEN CNT = 0
LOAD WHEN CNT = 0
800
pre_out3
794a
1
802a
802b
834
ROLLOVER CNT TO 9720-1
796
808

FIG. 52

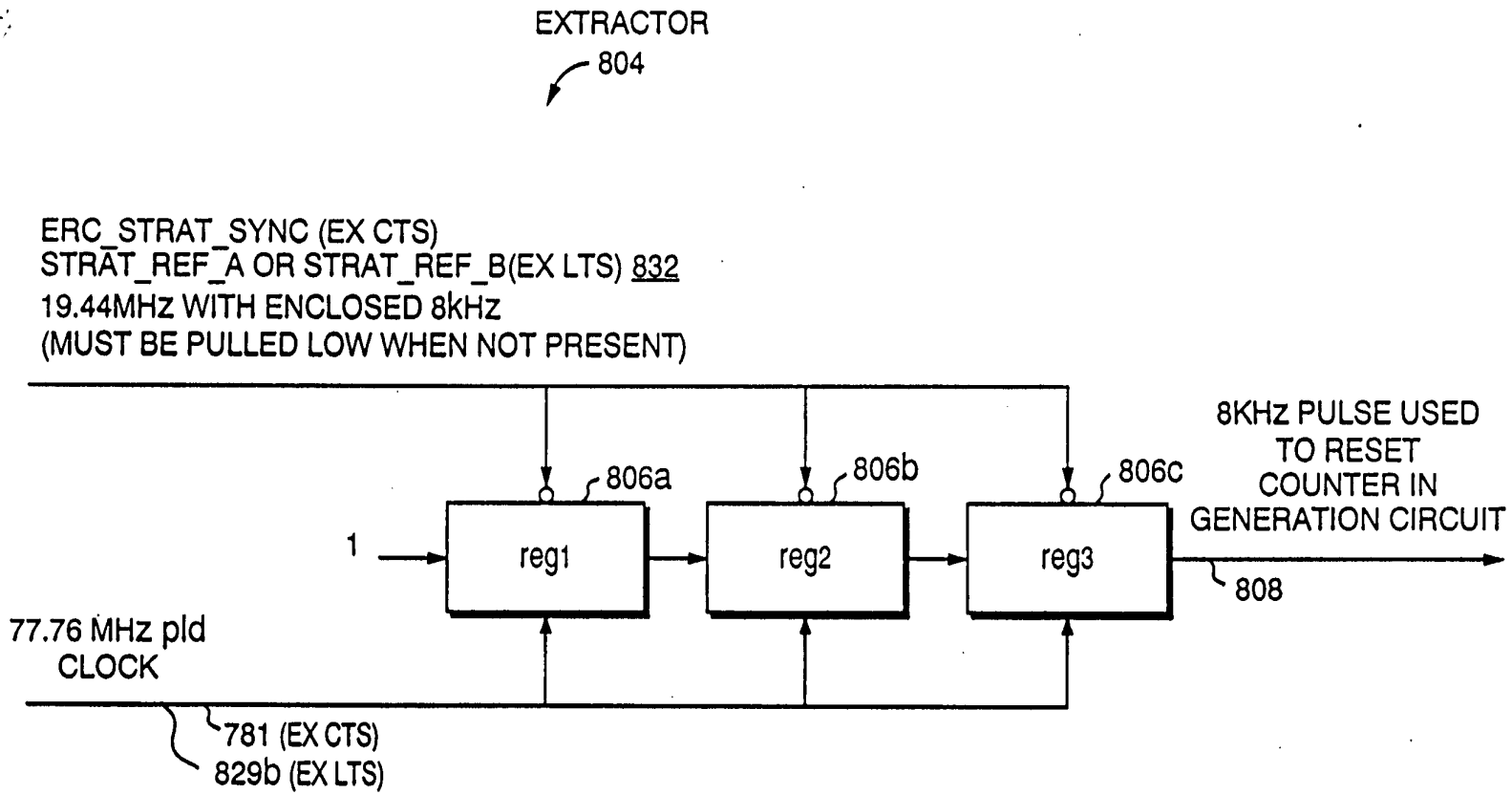


FIG. 53

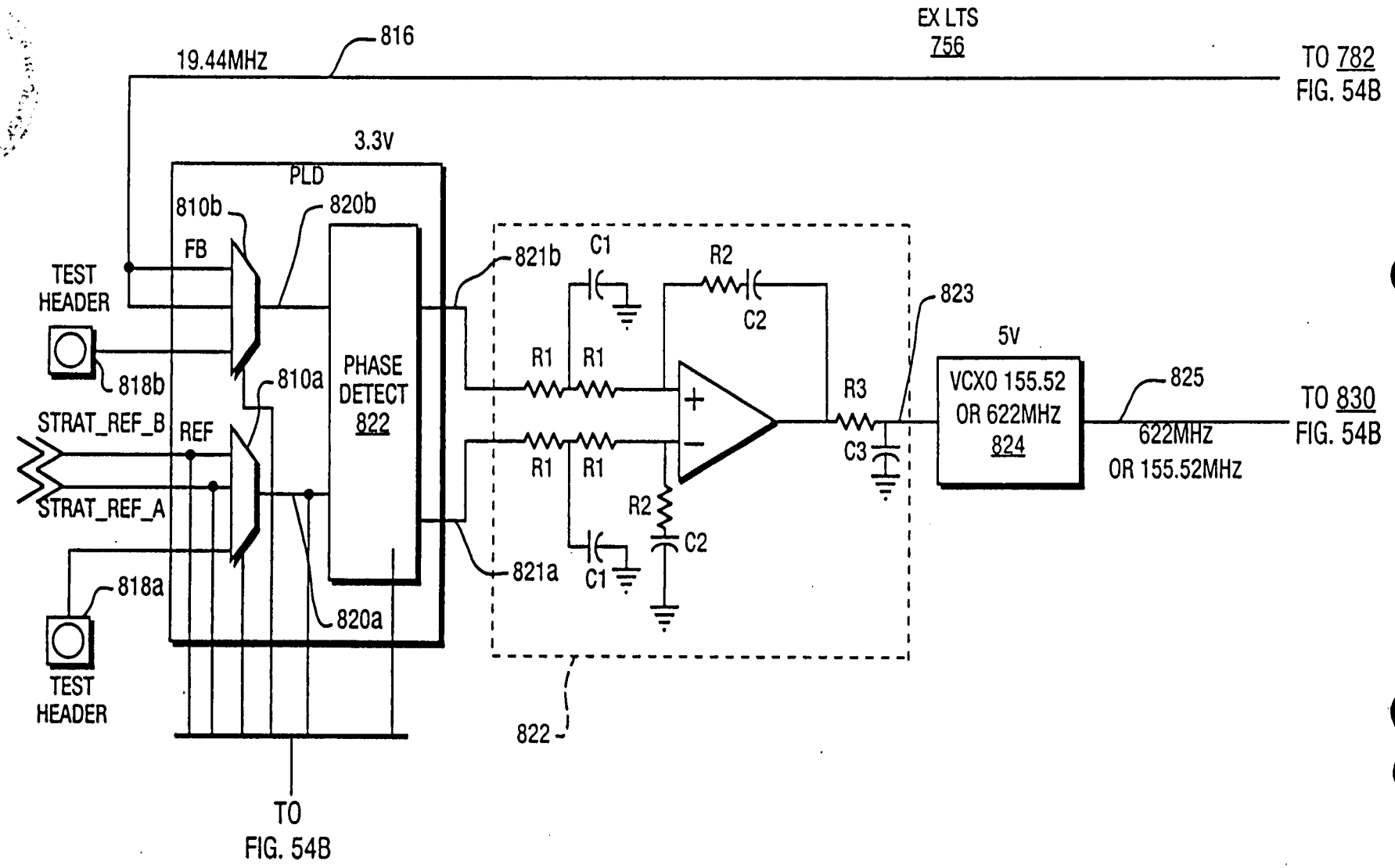


FIG. 54A

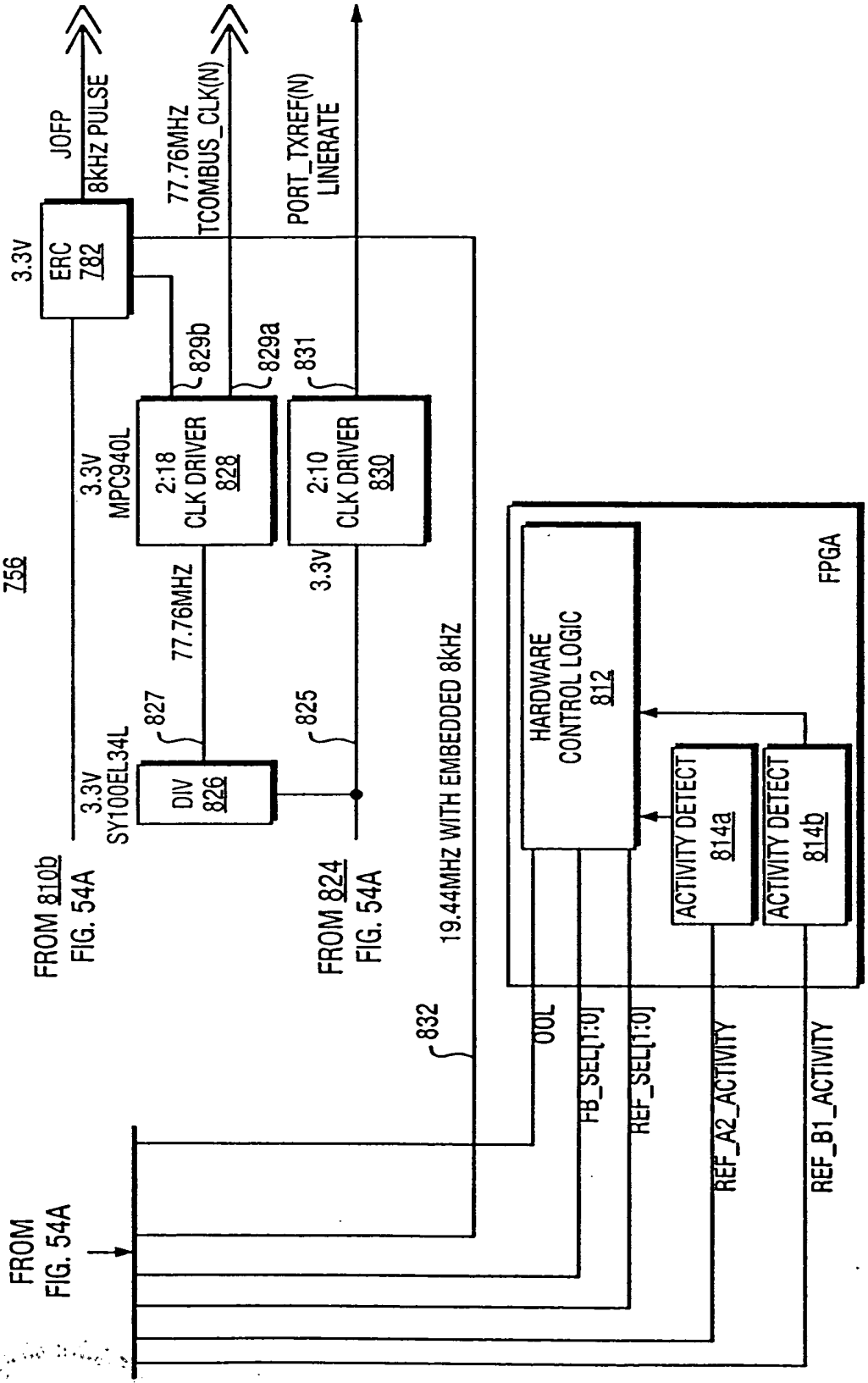

EX LTS
756
3.3V
ERC
782
JOFP
8KHZ PULSE
77.76MHZ
TCOMBUS_CLK(N)
PORT_TXREF(N)
LINERATE
3.3V
MPC940L
2:18
CLK DRIVER
828
829b
829a
831
2:10
CLK DRIVER
830
3.3V
77.76MHZ
827
825
3.3V
SY100EL34L
DIV
826
FROM 810b
FIG. 54A
FROM 824
FIG. 54A
19.44MHZ WITH EMBEDDED 8KHZ
832
HARDWARE
CONTROL LOGIC
812
FPGA
ACTIVITY DETECT
814a
ACTIVITY DETECT
814b
OOL
FB_SEL[1:0]
REF_SEL[1:0]
REF_A2_ACTIVITY
REF_B1_ACTIVITY
FROM
FIG. 54A

FIG. 54B

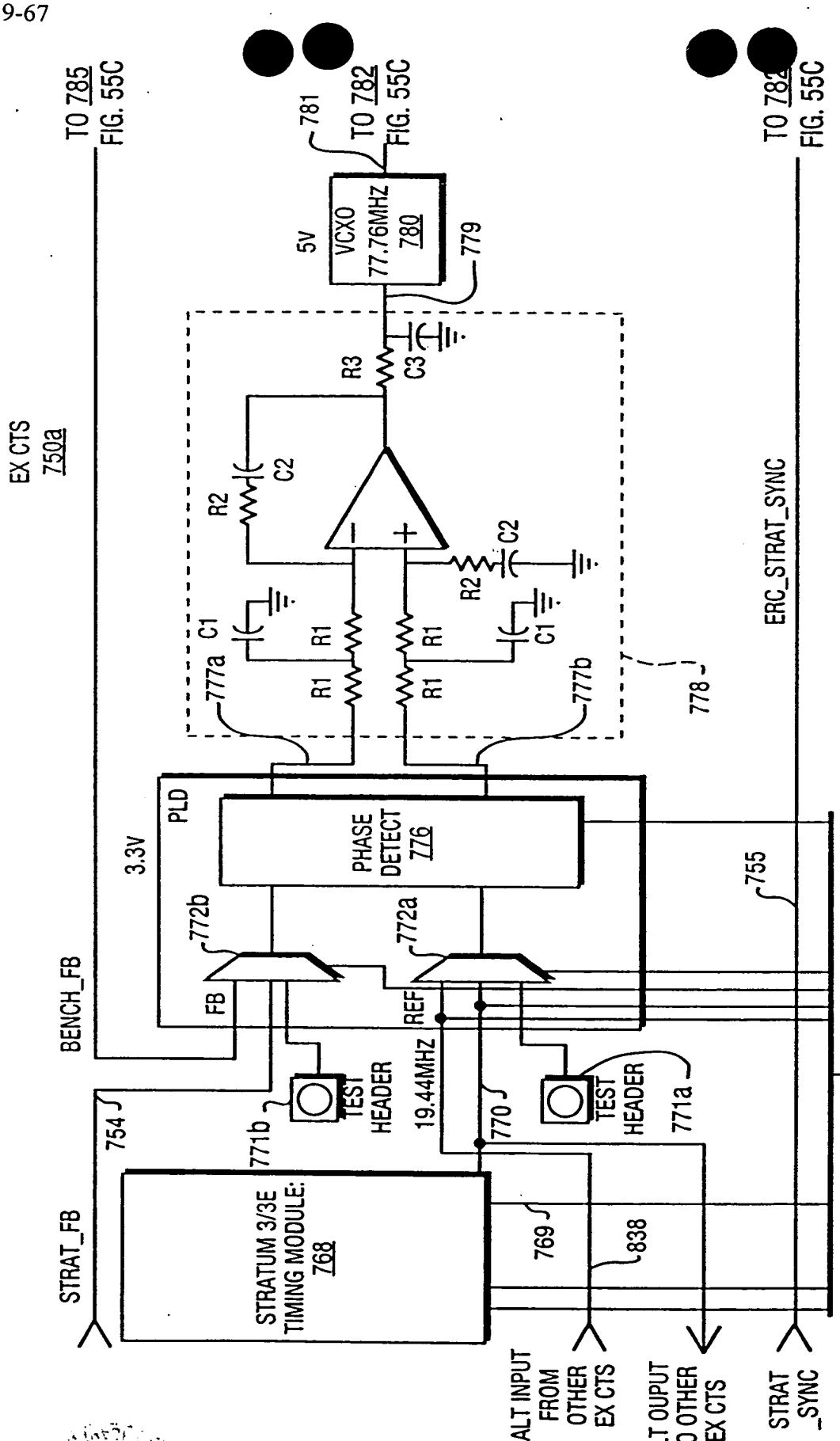

TO 785
FIG. 55C
781
TO 782
FIG. 55C
TO 782
FIG. 55C
5V
VCXO
77.76MHz
780
779
EX CTS
750a
R3
C3
C2
R2
R2
C2
C1
R1
R1
R1
R1
C1
777a
777b
778
ERC_STRAT_SYNC
PLD
3.3V
PHASE
DETECT
776
755
772b
772a
BENCH_FB
FB
REF
TEST
HEADER
19.44MHz
TEST
HEADER
754
771b
770
771a
TO
FIG. 55B
STRAT_FB
STRATUM 3/3E
TIMING MODULE
768
769
838
ALT INPUT
FROM
OTHER
EX CTS
ALT OUPUT
TO OTHER
EX CTS
STRAT
_SYNC

FIG. 55A

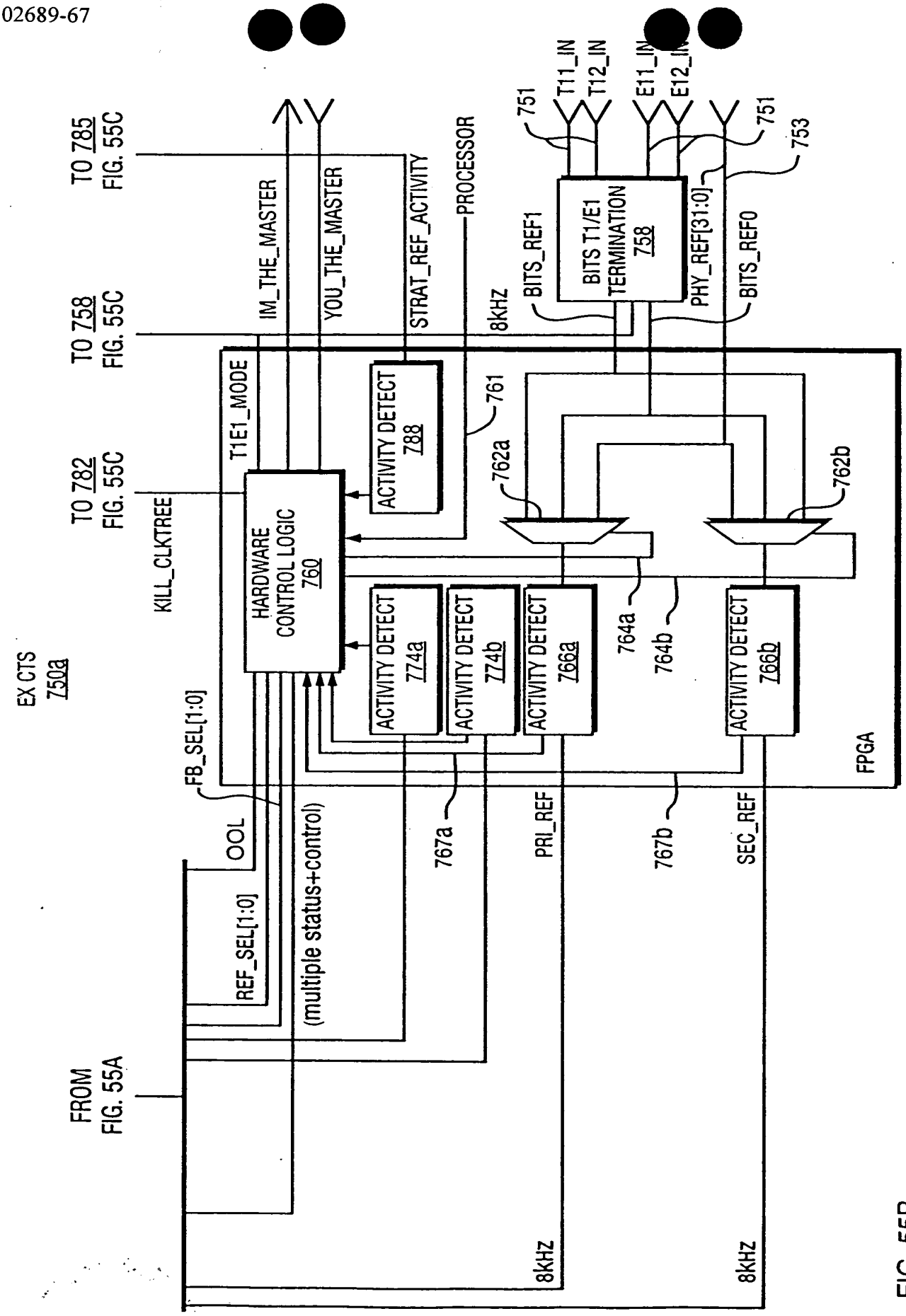

TO 785 FIG. 55C
TO 758 FIG. 55C
TO 782 FIG. 55C
FROM FIG. 55A
EX CTS Z50a
IM_THE_MASTER
YOU_THE_MASTER
STRAT_REF_ACTIVITY
PROCESSOR
8kHz
BITS_REF1
BITS_REF0
PHY_REF[31:0]
751
753
T11_IN
T12_IN
E11_IN
E12_IN
BITS T1/E1 TERMINATION Z58
T1E1_MODE
KILL_CLKTREE
HARDWARE CONTROL LOGIC Z60
ACTIVITY DETECT Z88
761
762a
762b
ACTIVITY DETECT Z74a
ACTIVITY DETECT Z74b
ACTIVITY DETECT Z66a
ACTIVITY DETECT Z66b
764a
764b
FB_SEL[1:0]
OOL
REF_SEL[1:0]
(multiple status+control)
767a
767b
PRI_REF
SEC_REF
FPGA
8kHz
8kHz

FIG. 55B

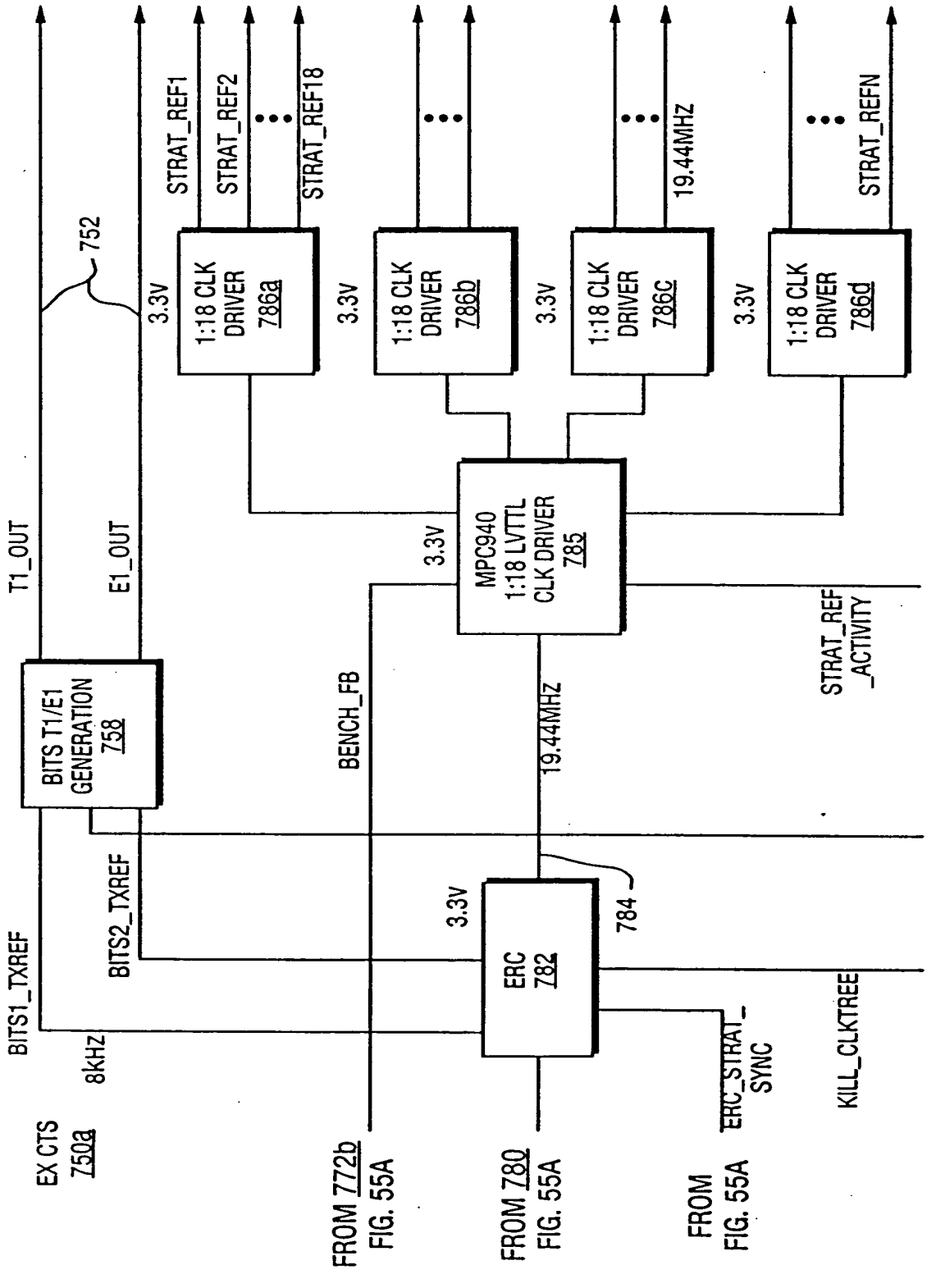

EX CTS
Z50a
BITS1_TXREF
8kHZ
BITS2_TXREF
BITS T1/E1
GENERATION
Z58
T1_OUT
E1_OUT
752
3.3V
1:18 CLK
DRIVER
Z86a
STRAT_REF1
STRAT_REF2
STRAT_REF18
1:18 CLK
DRIVER
Z86b
1:18 CLK
DRIVER
Z86C
19.44MHZ
1:18 CLK
DRIVER
Z86d
STRAT_REFN
MPC940
1:18 LVTTL
CLK DRIVER
Z85
BENCH_FB
19.44MHZ
STRAT_REF
_ACTIVITY
FROM Z88
FIG. 55B
FROM Z58
FIG. 55B
FROM Z60
FIG. 55B
ERC
Z82
784
ERC_STRAT_
SYNC
KILL_CLKTREE
FROM Z72b
FIG. 55A
FROM Z80
FIG. 55A
FROM
FIG. 55A

FIG. 55C

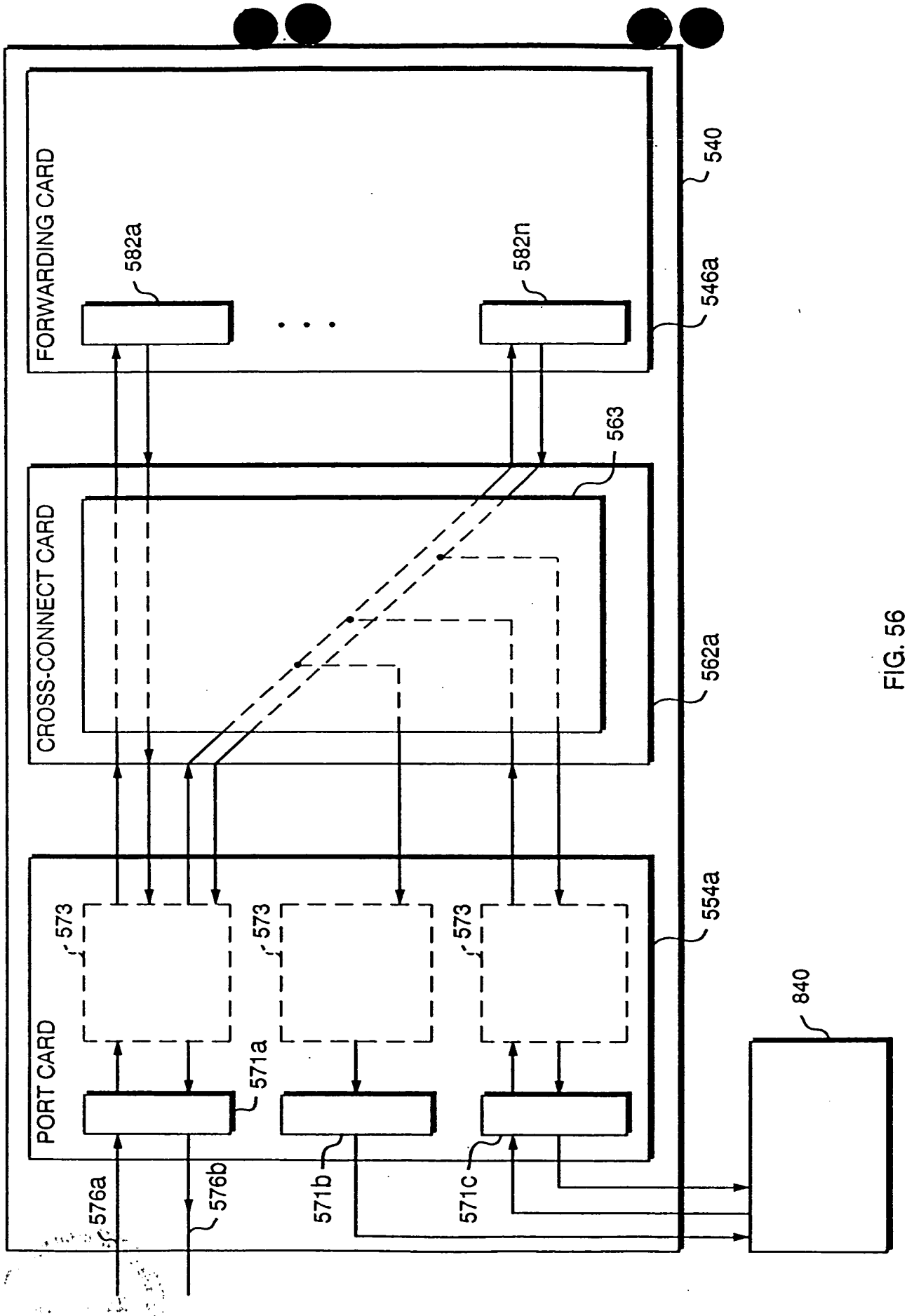

FORWARDING CARD
582a
582n
546a
540
563
CROSS-CONNECT CARD
562a
PORT CARD
573
573
573
554a
571a
571b
571c
576a
576b
840

FIG. 56

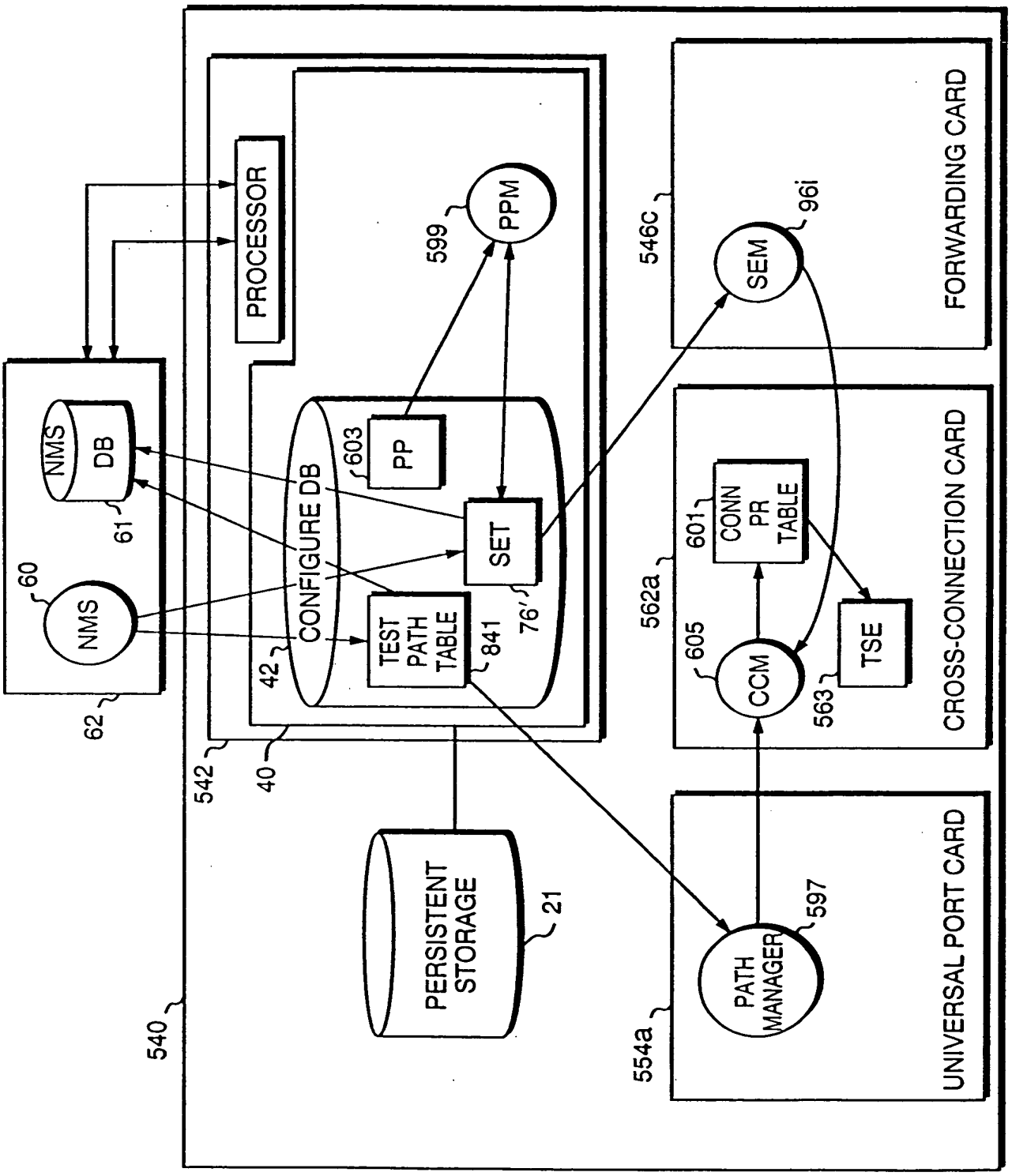

NMS
DB
61
60
NMS
62
PROCESSOR
CONFIGURE DB
603
PP
599
PPM
SET
76'
TEST PATH TABLE
841
42
542
40
PERSISTENT STORAGE
21
540
546c
SEM
96i
FORWARDING CARD
562a
601
CONN PR TABLE
605
CCM
563
TSE
CROSS-CONNECTION CARD
554a
PATH MANAGER
597
UNIVERSAL PORT CARD

FIG. 57

TEST PATH TABLE 841

	PATH LID	UP PORT LID	TIME SLOT	# OF TIME SLOTS	MONITOR (844)	ENABLE PORT RECEIVER (845)	...
842	1666	1232	4	3	INGRESS	NO	
843	1666	1233	4	3	EGRESS	NO	
844	1666	1233	4	3	INGRESS	YES	
	⋮	⋮	⋮	⋮			⋮

FIG. 58

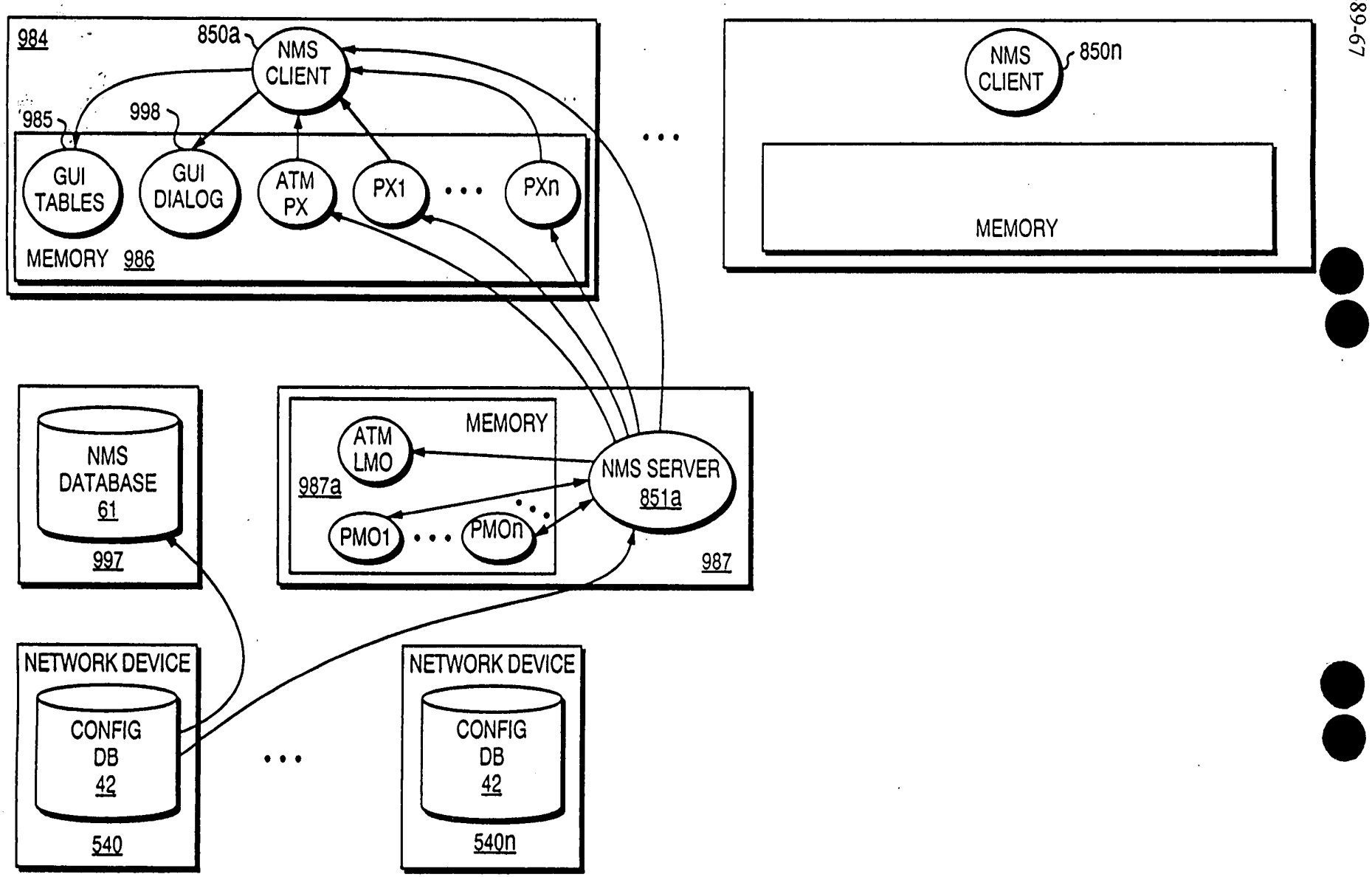

984
850a
NMS CLIENT
985
998
GUI TABLES
GUI DIALOG
ATM PX
PX1
PXn
MEMORY 986
NMS CLIENT
850n
MEMORY
NMS DATABASE 61
997
MEMORY
ATM LMO
987a
NMS SERVER 851a
PMO1
PMOn
987
NETWORK DEVICE
CONFIG DB 42
540
NETWORK DEVICE
CONFIG DB 42
540n

FIG. 59

MANAGED DEVICE TABLE 983

983b, 983a

PID	A1	• • •	An
1			

FIG 60A

CHASSIS TABLE 988

988b, 988c, 988a

PID	A1	• • •	An	MANAGED DEVICE PID
1				1
⋮	⋮	⋮	⋮	⋮

FIG 60B

SHELF TABLE 989

989a, 989b

PID	A1	• • •	An	CHASSIS PID
3				2
4				2
⋮	⋮	⋮	⋮	⋮
18				2

FIG 60C

SLOT TABLE 990

990a, 990b, 990c, 990d

PID	A1	• • •	An	SHELF PID
20				3
21				3
⋮	⋮	⋮	⋮	⋮
116				18

FIG 60D

CARD TABLE 47'

47a

47b

PID	CWD TYPE	VERSION NO.	SLOT PID	...
120	0XF002	3	20	
121	0XF002	4	21	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
124	0X6002	1	24	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
131	0XF002	1	31	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

FIG 60E

PORT TABLE 49'

49a

49b

PID	PORT TYPE	VERSION NO.	CARD PID	...
300	00620	1	20	
301	00620	1	20	
302	00620	1	20	
303	00620	1	20	
304	00820	1	20	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.
400	OO620	1	39	
.	.	.	.	.
.	.	.	.	.
.	.	.	.	.

FIG 60F

SONET PATH TABLE 600'

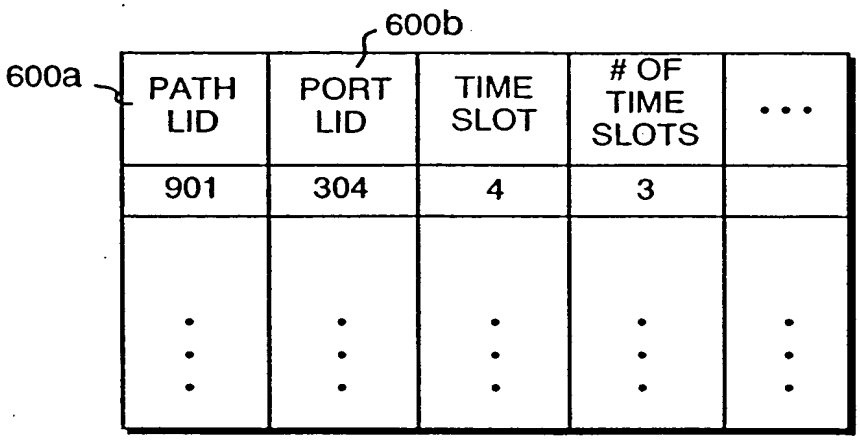


FIG. 60G

SERVICE ENDPOINT TABLE 76''

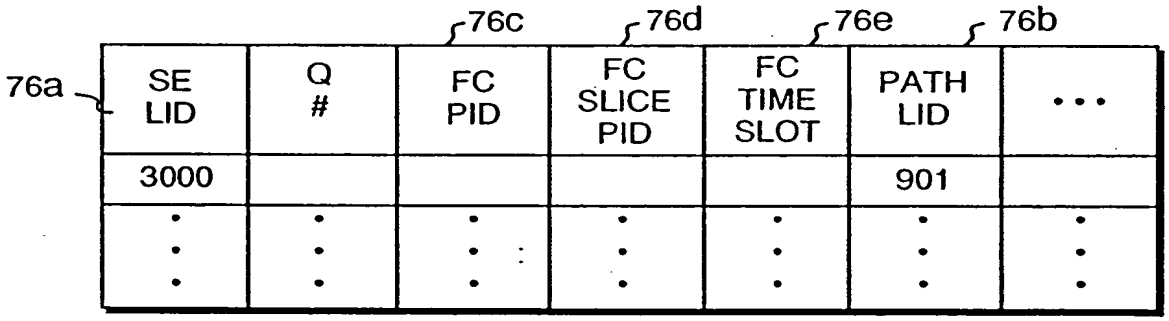


FIG. 60H

ATM IF TABLE 114''

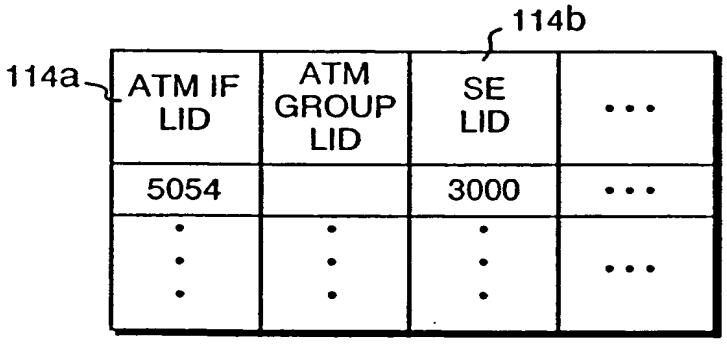


FIG. 60I

VIRTUAL ATM IF TABLE 993

993a 993b

LID	A1	• • •	An	ATM IF LID
7489				5054
⋮	⋮	⋮	⋮	⋮

FIG 60J

VIRTUAL CONNECTION TABLE 994

994a 994b

LID	A1	• • •	An	VIR. ATM IF LID
⋮	⋮	⋮	⋮	⋮

FIG 60K

VIRTUAL LINK TABLE 995

995a 995b 995c

LID	A1	• • •	An	VIR. CONN. LID	CROSS. CONN. LID
⋮	⋮	⋮	⋮	⋮	⋮

FIG 60L

CROSS-CONNECT TABLE 996

996a 996b 996c

LID	A1	• • •	An	VIR. LINK1 LID	VIR. LINK2 LID
⋮	⋮	⋮	⋮	⋮	⋮

FIG 60M

ATM NODE TABLE 999

999a 999b 999c

LID	A1	• • •	An	MANAGED DEVICE PID
5000				1

FIG 60N

PHYSICAL MANAGED OBJECT 991

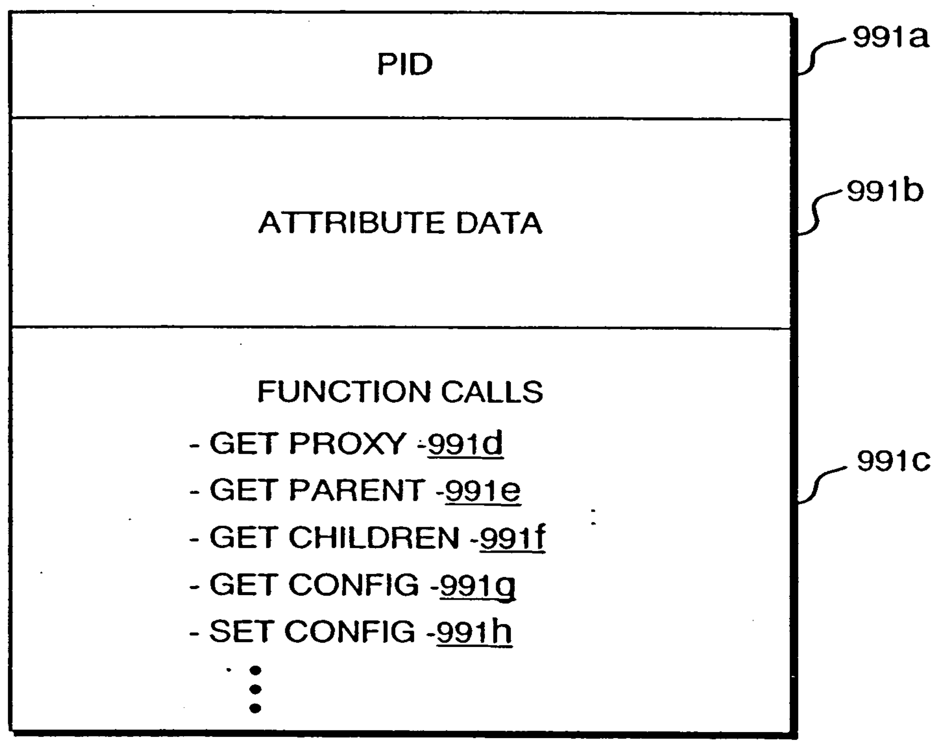


FIG. 61A

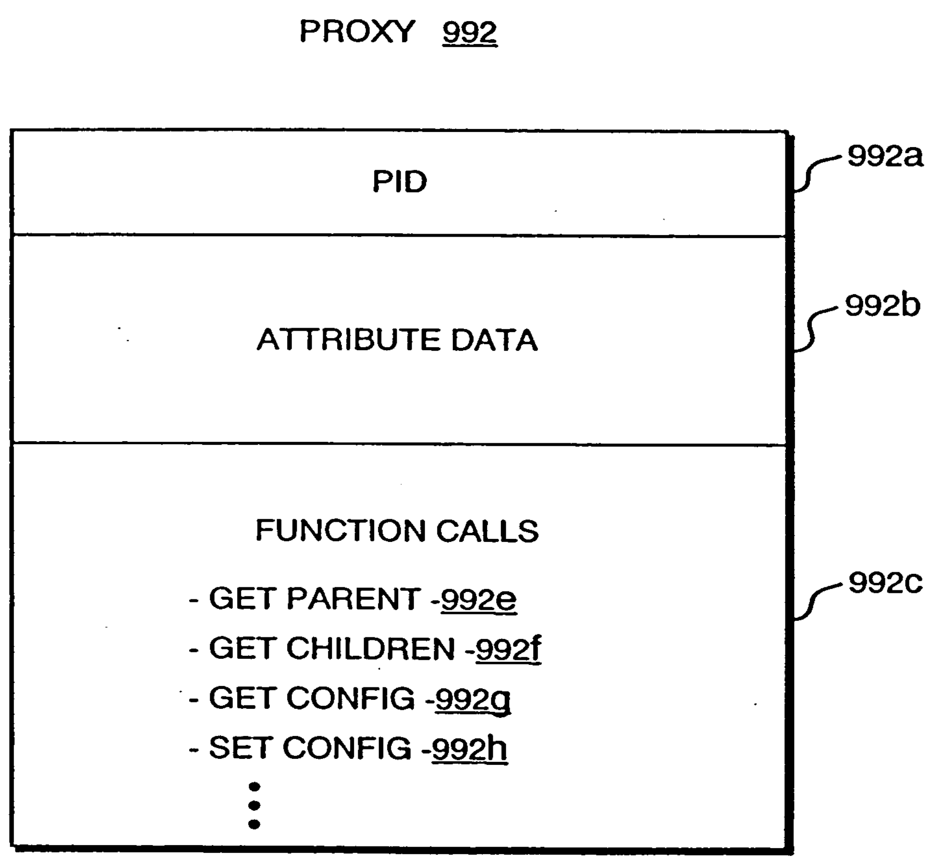


FIG. 61B

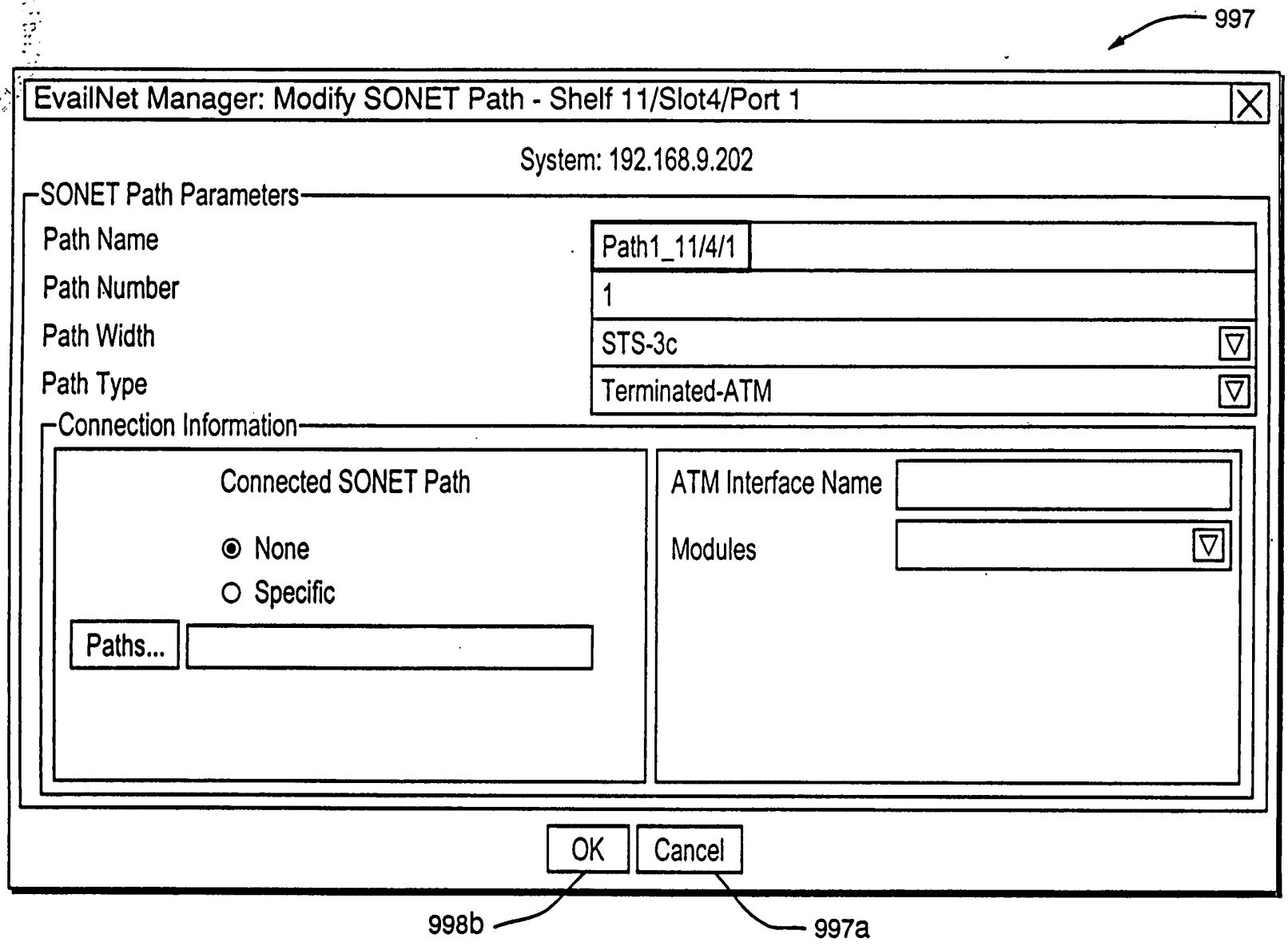


FIG. 62

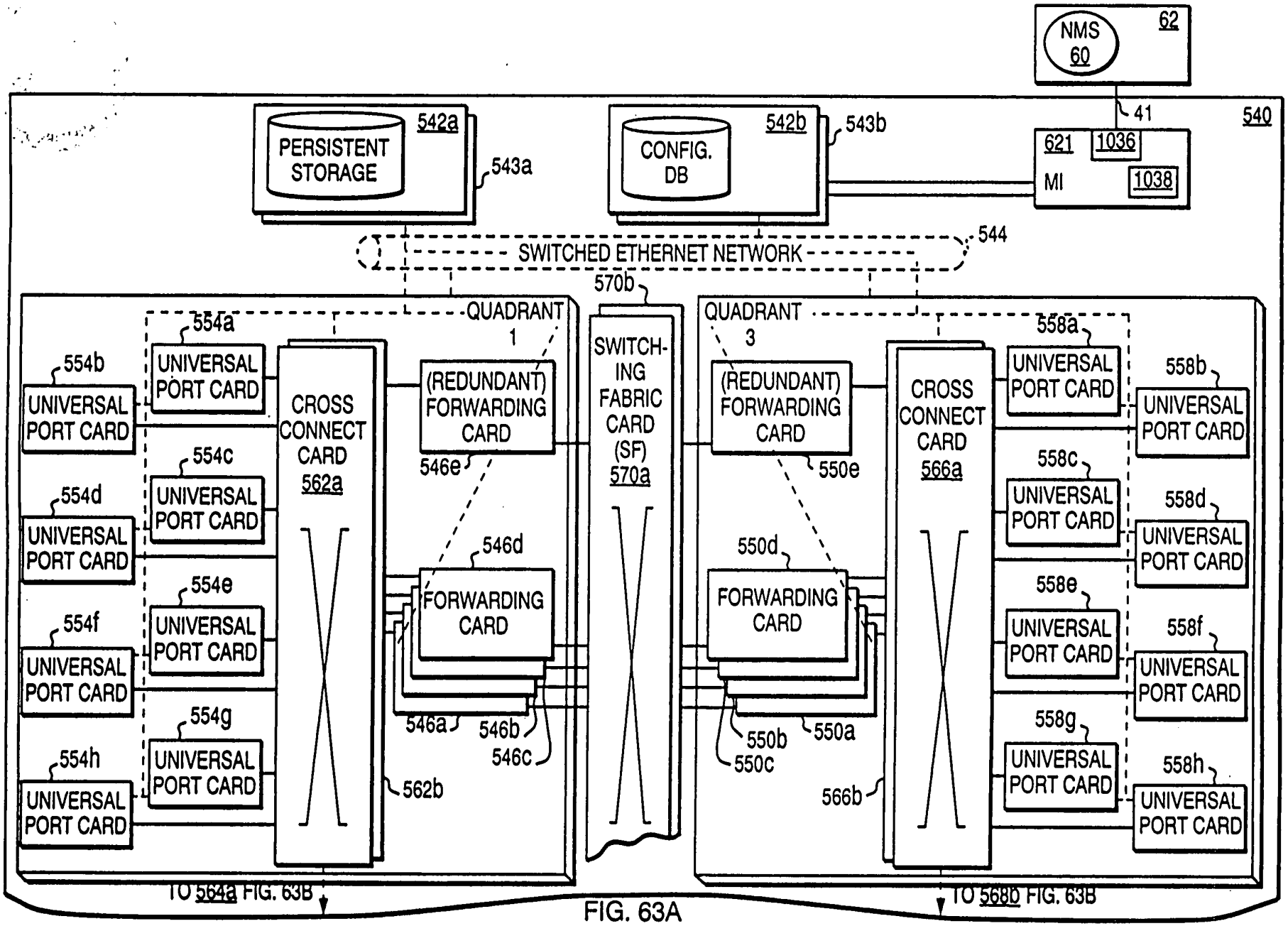


FIG. 63A

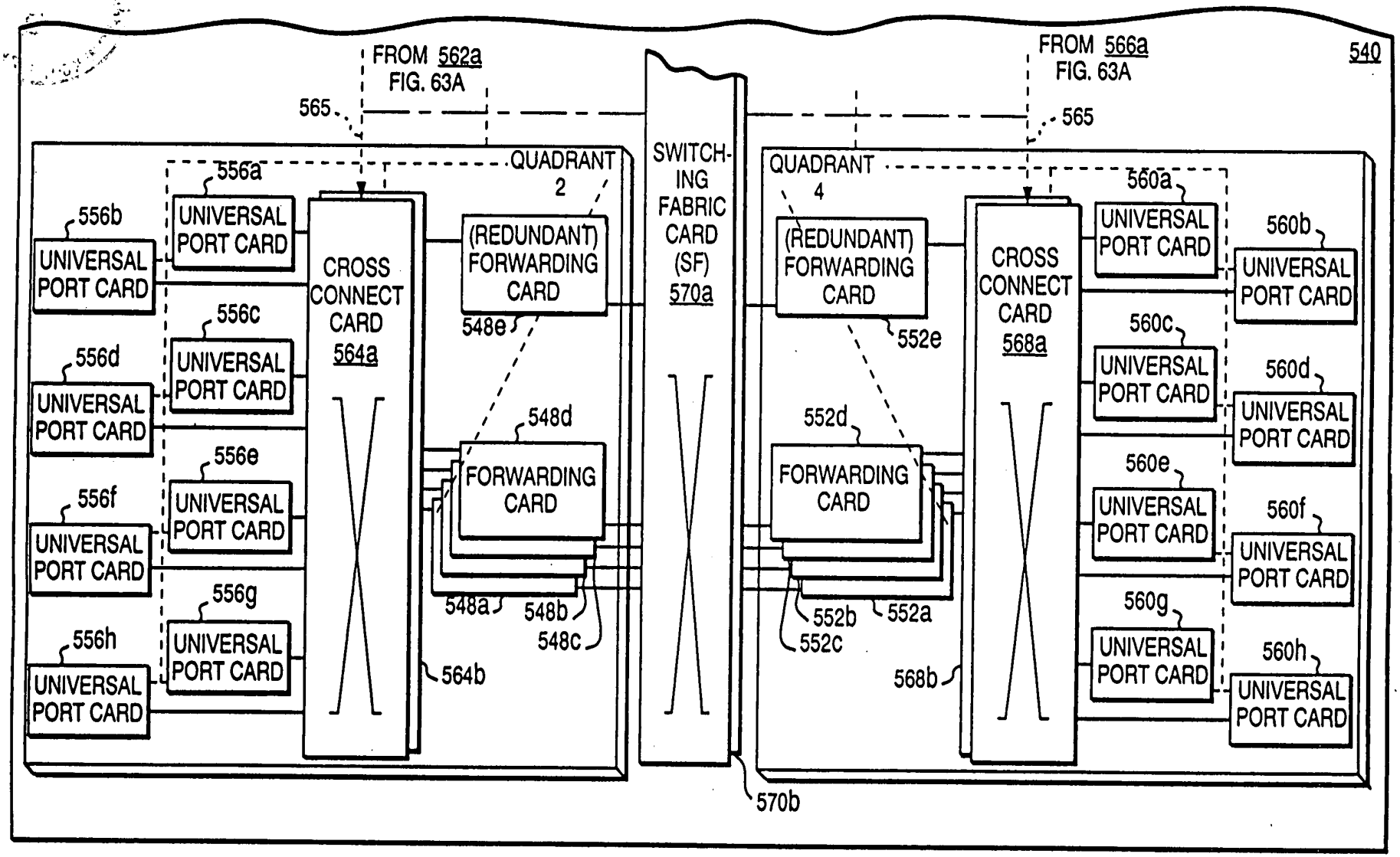


FIG. 63B

ADMINISTRATION MANAGED DEVICE TABLE 1014'

1014a' LID	HOST ADDRESS	PORT ADDRESS	RETRY	TIMEOUT	ADMIN. PASSWORD	PROV. PASSWORD	VIEWER PASSWORD	1014e' PHYSICAL ID	1014f' PHYSICAL ID
9046	192.168.9.202	1521			TEAM 1	TEAM 2	TEAM 3		
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 64

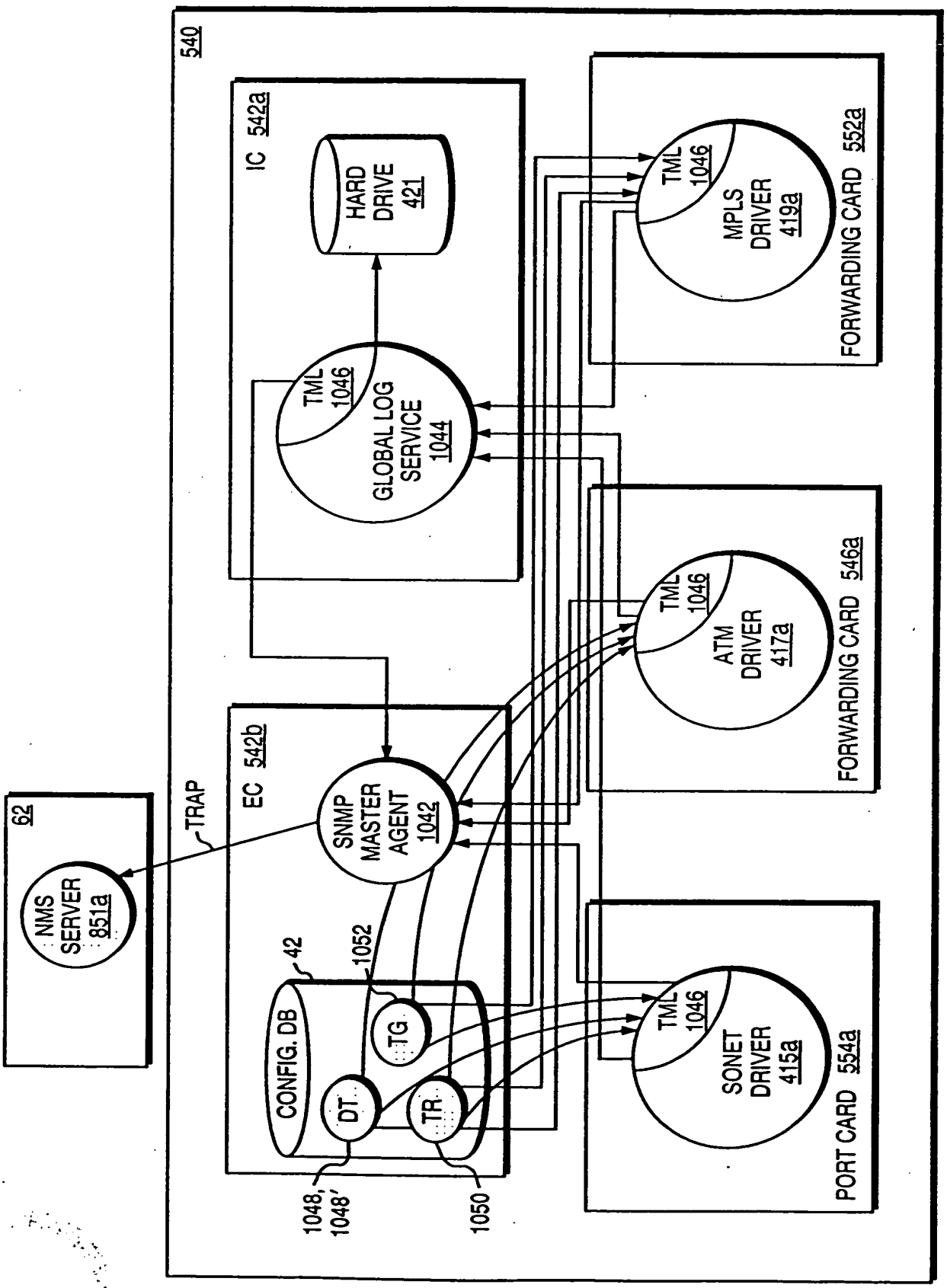

540
IC 542a
HARD DRIVE 421
TML 1046
GLOBAL LOG SERVICE 1044
FORWARDING CARD 552a
TML 1046
MPLS DRIVER 419a
FORWARDING CARD 546a
TML 1046
ATM DRIVER 417a
PORT CARD 554a
TML 1046
SONET DRIVER 415a
EC 542b
SNMP MASTER AGENT 1042
CONFIG. DB
42
1052
TG
DT
TR
1048, 1048'
1050
TRAP
62
NMS SERVER 851a

FIG. 65

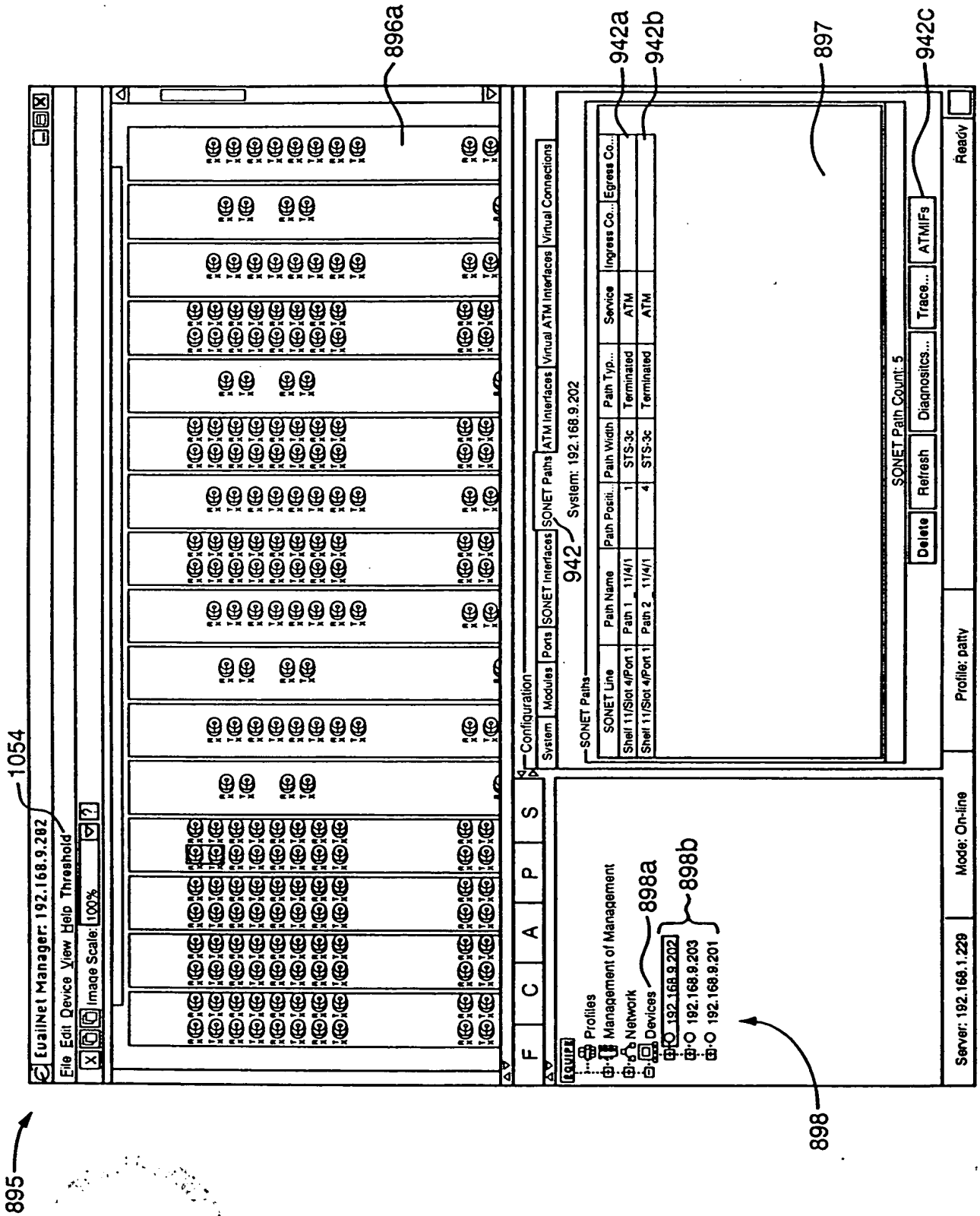

EvalNet Manager: 192.168.9.202
File Edit Device View Help Threshold
Image Scale: 100%
1054
896a
942a
942b
897
942C
Configuration
System
Modules
Ports
SONET Interfaces
SONET Paths
ATM Interfaces
Virtual ATM Interfaces
Virtual Connections
942
System: 192.168.9.202
SONET Paths
SONET Line
Path Name
Path Positi...
Path Width
Path Typ...
Service
Ingress Co...
Egress Co...
Shelf 11/Slot 4/Port 1
Path 1_11/4/1
1
STS-3c
Terminated
ATM
Shelf 11/Slot 4/Port 1
Path 2_11/4/1
4
STS-3c
Terminated
ATM
SONET Path Count: 5
Delete
Refresh
Diagnositcs...
Trace...
ATMIFs
F
C
A
P
S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
898a
898b
898
895
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 66A

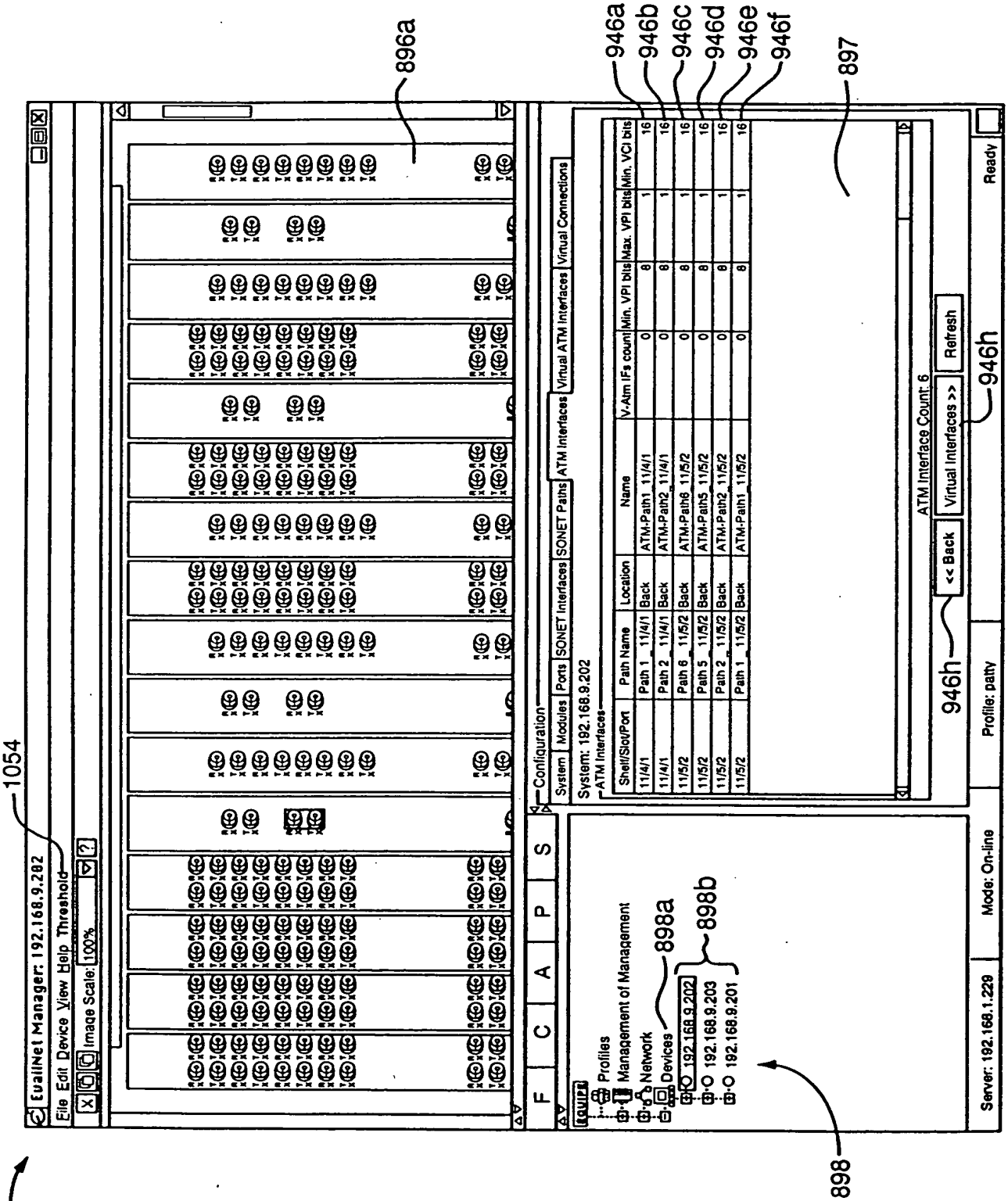

EsaiNet Manager: 192.168.9.202
File Edit Device View Help Threshold
Image Scale: 100%
1054
896a
946a
946b
946c
946d
946e
946f
897
Configuration
System | Modules | Ports | SONET Interfaces | SONET Paths | ATM Interfaces | Virtual ATM Interfaces | Virtual Connections
System: 192.168.9.202
ATM Interfaces
Shelf/Slot/Port | Path Name | Location | Name | V-Atm IFs count | Min. VPI bits | Max. VPI bits | Min. VCI bits
11/4/1 | Path 1_11/4/1 | Back | ATM-Path1_11/4/1 | 0 | 8 | 1 | 16
11/4/1 | Path 2_11/4/1 | Back | ATM-Path2_11/4/1 | 0 | 8 | 1 | 16
11/5/2 | Path 6_11/5/2 | Back | ATM-Path6_11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 5_11/5/2 | Back | ATM-Path5_11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 2_11/5/2 | Back | ATM-Path2_11/5/2 | 0 | 8 | 1 | 16
11/5/2 | Path 1_11/5/2 | Back | ATM-Path1_11/5/2 | 0 | 8 | 1 | 16
ATM Interface Count: 6
<< Back
Virtual Interfaces >>
Refresh
946h
946h
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.203
192.168.9.201
898a
898b
898
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready
895

FIG. 66B

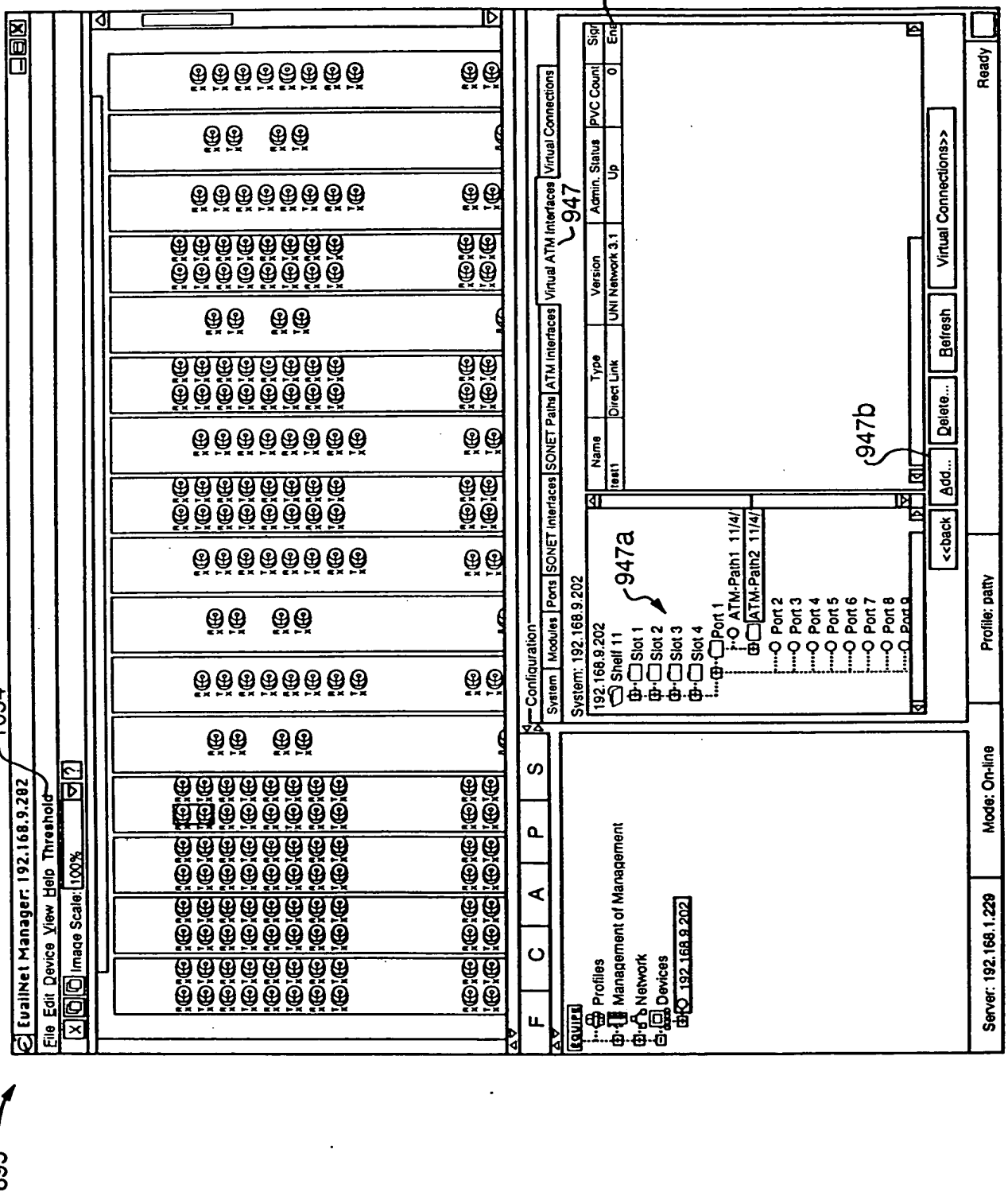

895
1054
947c
947
947a
947b
EsaliNet Manager: 192.168.9.202
File Edit Device View Help Threshold
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.168.9.202
192.168.9.202
Shelf 11
Slot 1
Slot 2
Slot 3
Slot 4
Port 1
ATM-Path1 11/4/
ATM-Path2 11/4/
Port 2
Port 3
Port 4
Port 5
Port 6
Port 7
Port 8
Port 9
Name Type Version Admin. Status PVC Count Sigi
test1 Direct Link UNI Network 3.1 Up 0
<<back Add... Delete... Refresh Virtual Connections>>
Figures
Profiles
Management of Management
Network
Devices
192.168.9.202
Server: 192.168.1.229 Mode: On-line Profile: patty Ready

FIG. 66C

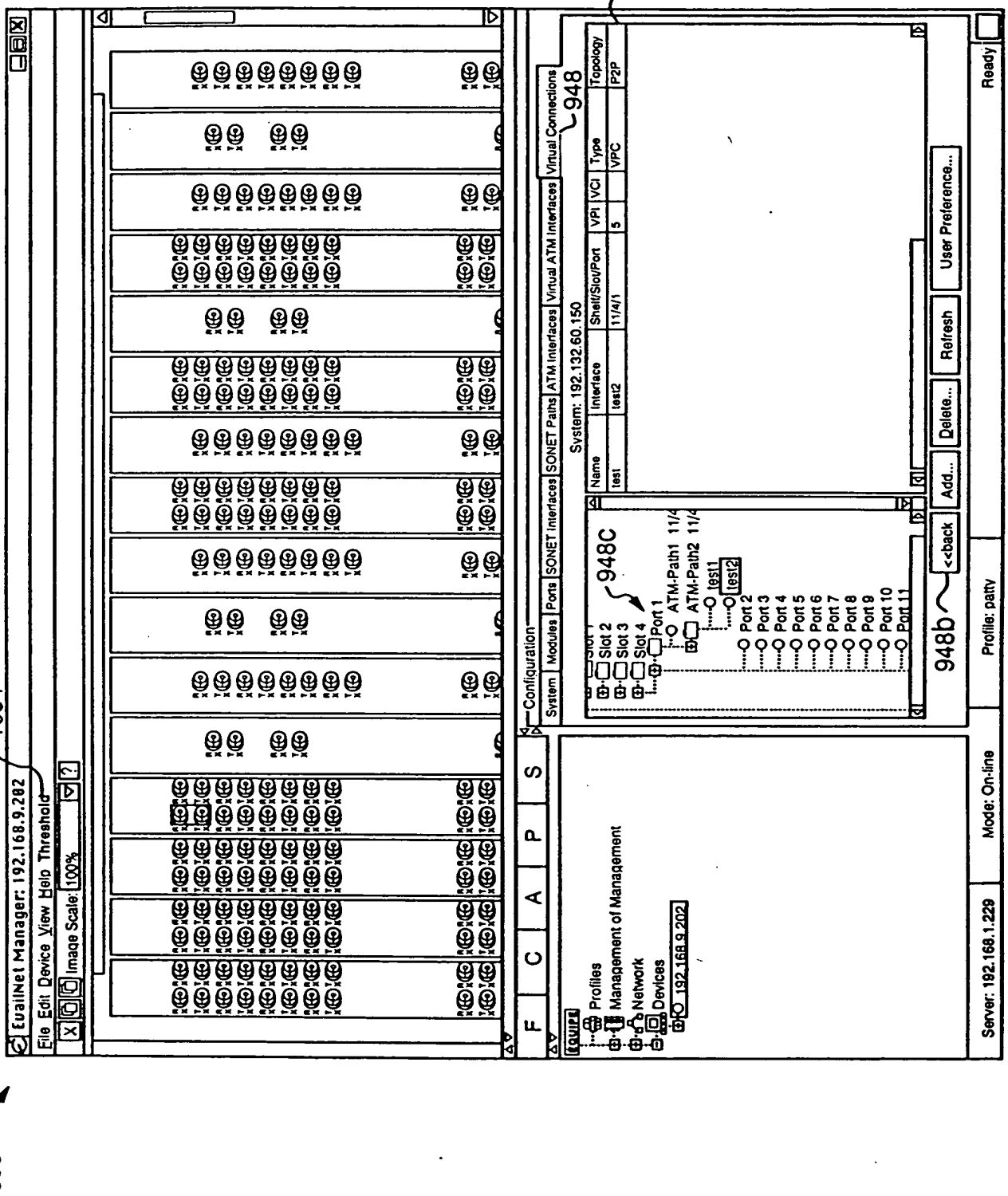

895
1054
948a
948
948c
948b
EsaiNet Manager: 192.168.9.202
File Edit Device View Help Threshold
Image Scale: 100%
F C A P S
Configuration
System Modules Ports SONET Interfaces SONET Paths ATM Interfaces Virtual ATM Interfaces Virtual Connections
System: 192.132.60.150
Name Interface Shelf/Slot/Port VPI VCI Type Topology
test1 test2 11/4/1 5 VPC P2P
Slot 1 Slot 2 Slot 3 Slot 4
Port 1 ATM-Path1 11/4
ATM-Path2 11/4
test1 test2
Port 2 Port 3 Port 4 Port 5 Port 6 Port 7 Port 8 Port 9 Port 10 Port 11
<<back Add... Delete... Refresh User Preference...
Profiles
Management of Management
Network
Devices
192.168.9.202
Server: 192.168.1.229 Mode: On-line Profile: patty Ready

FIG. 66D

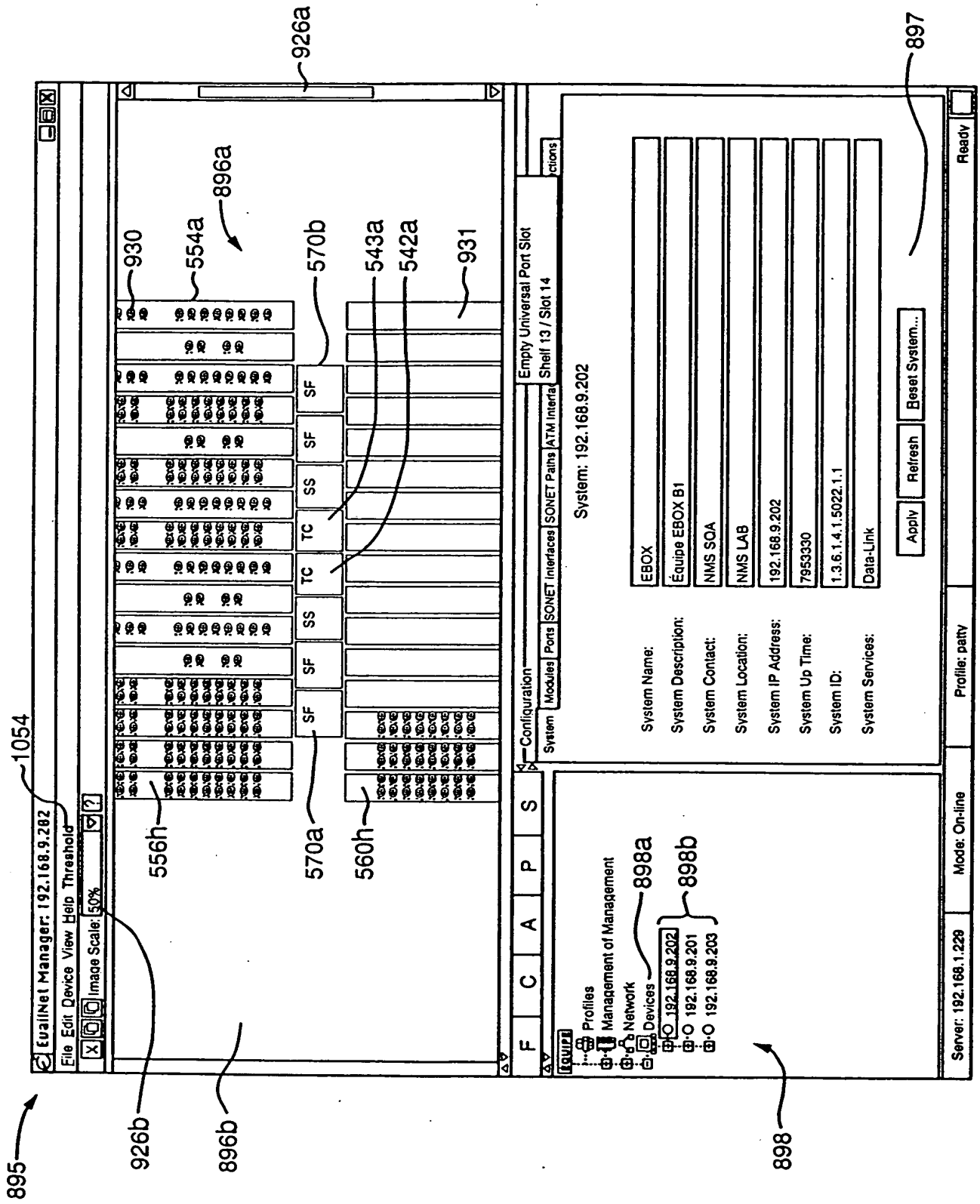

EqualNet Manager: 192.168.9.282
File Edit Device View Help Threshold
Image Scale: 50%
1054
926a
896a
930
554a
570b
543a
542a
931
556h
570a
560h
926b
896b
895
898
897
898a
898b
F C A P S
Profiles
Management of Management
Network
Devices
192.168.9.202
192.168.9.201
192.168.9.203
Configuration
System
Modules
Ports
SONET interfaces
SONET Paths
ATM Interfa
Shelf 13 / Slot 14
Empty Universal Port Slot
System: 192.168.9.202
System Name:
System Description:
System Contact:
System Location:
System IP Address:
System Up Time:
System ID:
System Services:
EBOX
Équipe EBOX B1
NMS SQA
NMS LAB
192.168.9.202
7953330
1.3.6.1.4.1.5022.1.1
Data-Link
Apply
Refresh
Reset System...
Server: 192.168.1.229
Mode: On-line
Profile: patty
Ready

FIG. 66E

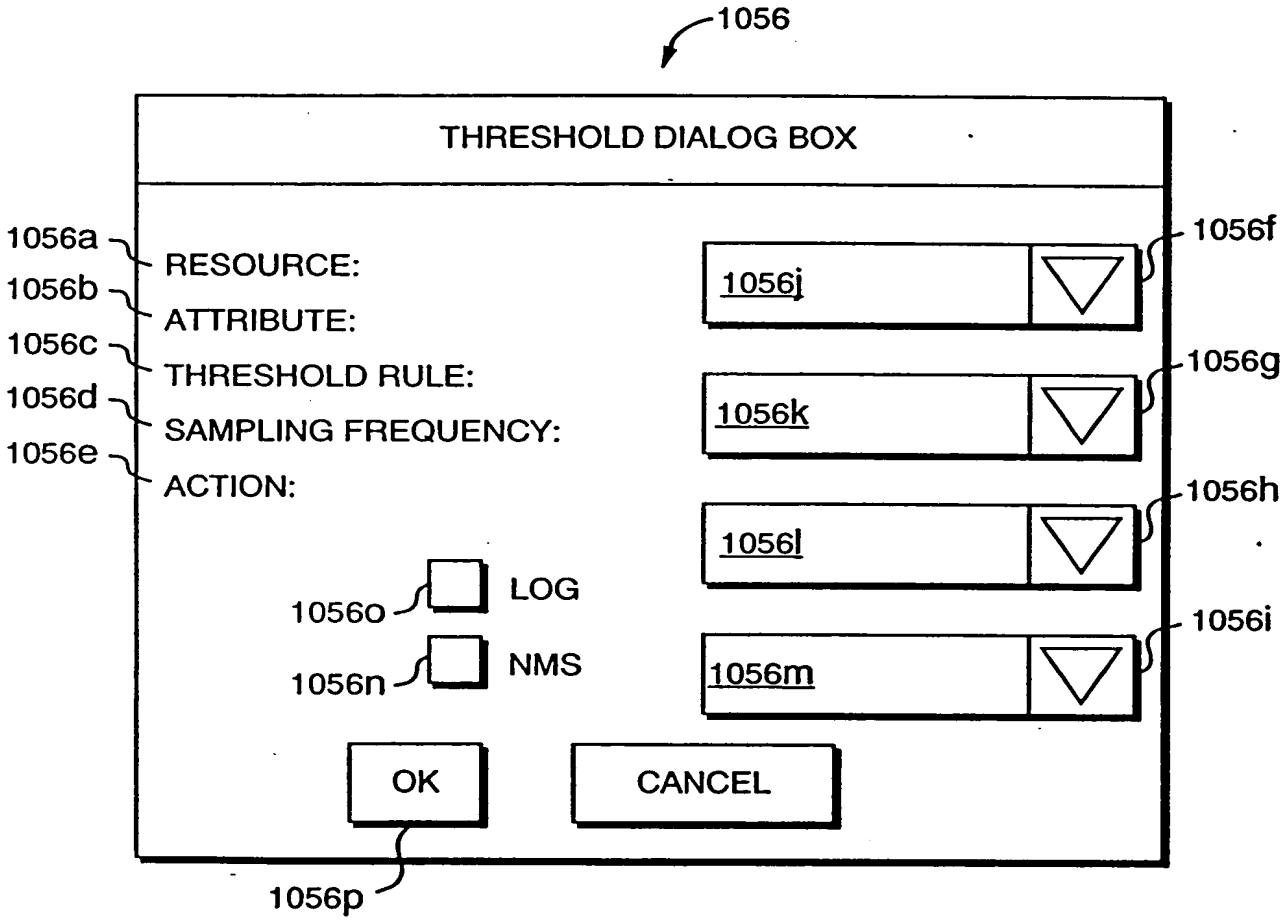

1056
THRESHOLD DIALOG BOX
1056a
RESOURCE:
1056b
ATTRIBUTE:
1056c
THRESHOLD RULE:
1056d
SAMPLING FREQUENCY:
1056e
ACTION:
1056j
1056f
1056k
1056g
1056l
1056h
1056o
LOG
1056n
NMS
1056m
1056i
OK
CANCEL
1056p

FIG. 67

DYNAMIC THRESHOLD TABLE 1048

1048a RESOURCE ID	1048c ATTRIBUTE	1048d SAMPLING FREQ.	1048e ACTION	1048f RULE
1048g 901	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	IF ATTRIBUTE > 10
901	PATH ERRORS (PATH END)	15 min	TRAP	IF ATTRIBUTE < 5 OR >10
901	PATH ERRORS (PATH END)	5 min	LOG & TRAP	IF ATTRIBUTE < 5 OR >10
⋮	⋮	⋮	⋮	⋮
5054	FAILED CALL ATTEMPTS	10 min	TRAP	IF ATTRIBUTE > 8 BETWEEN 8:00am-7:00pm OR > 2 BETWEEN 7:00pm-8:00am
1048h 5054	HCS ERRORS	12 min	TRAP	IF ATTRIBUTE > 13
⋮	⋮	⋮	⋮	⋮
7312	RX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE < 4
7312	TX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE = 0
	⋮	⋮	⋮	⋮

FIG. 68

DYNAMIC THRESHOLD TABLE 1048'

1048a' THR. GROUP LID	1048b' RESOURCE	1048c' ATTRIBUTE	1048d' SAMPLING FREQ.	1048e' ACTION	1048f' RULE
8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	IF ATTRIBUTE > 10
8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	IF ATTRIBUTE < 5 OR >10
8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	IF ATTRIBUTE < 5 OR >10
⋮	⋮	⋮	⋮	⋮	⋮
8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	IF ATTRIBUTE > 8 BETWEEN 8:00am-7:00pm OR > 2 BETWEEN 7:00pm-8:00am
8433	ATM IF	HCS ERRORS	12 min	TRAP	IF ATTRIBUTE > 13
⋮	⋮	⋮	⋮	⋮	⋮
8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE < 4
8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	IF ATTRIBUTE = 0
	⋮	⋮	⋮	⋮	⋮

FIG. 69A

THRESHOLD GROUP TABLE 1052

1052a RESOURCE ID	THRESHOLD GROUP LID 1052b
901	8312
902	8313
903	8312
• • •	• • •
5054	8433
• • •	• • •
7312	8542

FIG. 69B

DYNAMIC THRESHOLD TABLE 1048''

	1048a'' THR. GROUP LID	1048b'' RESOURCE	1048c'' ATTRIBUTE	1048d'' SAMPLING FREQ.	1048e'' ACTION	1048f'' RULE LID	1048g'' VARIAB. a	1048h'' VARIAB. b	1048i'' VARIAB. c	1048j'' VARIAB. d	1048k'' VARIAB. e	1048l'' VARIAB. f	...	1048t'' VARIAB. n
1048u''	8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	9421	10							
	8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	9422	5	10						
	8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	9422	5	10						
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
	8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	9423	8	8:00am	7:00pm	2	7:00pm	8:00am		
1048v''	8433	ATM IF	HCS ERRORS	12 min	TRAP	9421	13							
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
	8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	9424	4							
	8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	9425								
		⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮

FIG. 70A

THRESHOLD RULE TABLE 1050

1050a 1050b 1050c

RULE LID	EXPRESSION
9421	IF ATTRIBUTE > a
9422	IF ATTRIBUTE < a OR > b
9423	IF ATTRIBUTE > a BETWEEN b-c OR > d BETWEEN e-f
9424	IF ATTRIBUTE < a
9425	IF ATTRIBUTE = 0
9426	RMON
9427	FOE
9428	IF ATTRIBUTE < a GO TO RULE LID b
⋮	⋮

FIG. 70B

DYNAMIC THRESHOLD TABLE 1048'''

1048a''' THR. GROUP LID	RESOURCE	ATTRIBUTE	SAMPLING FREQ.	ACTION	RULE LID	VARIAB. a	VARIAB. b	VARIAB. c	VARIAB. d	VARIAB. e	VARIAB. f	...	VARIAB. n	1048w''' ACTIVE/ INACTIVE
1048u''' 8312	SONET PATH	UNAVAILABLE SECONDS (PATH END)	15 min	LOG	9421	10								
8312	SONET PATH	PATH ERRORS (PATH END)	15 min	TRAP	9422	5	10							
8312	SONET PATH	PATH ERRORS (FAR END)	5 min	LOG & TRAP	9422	5	10							
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
8433	ATM IF	FAILED CALL ATTEMPTS	10 min	TRAP	9423	8	8:00am	7:00pm	2	7:00pm	8:00am			
1048v''' 8433	ATM IF	HCS ERRORS	12 min	TRAP	9421	13								
⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
8542	VIRTUAL CONN.	RX TRAFFIC	1 HOUR	TRAP	9424	4								
8542	VIRTUAL CONN.	TX TRAFFIC	1 HOUR	TRAP	9425									
	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮	⋮
1048x''' 8588	HARD DRIVE	UNUSED DISK SPACE	5 min	LOG	9428	80	9424							ACTIVE
1048y''' 8588	HARD DRIVE	UNUSED DISK SPACE	30 sec	TRAP	9424	20								INACTIVE

FIG. 71

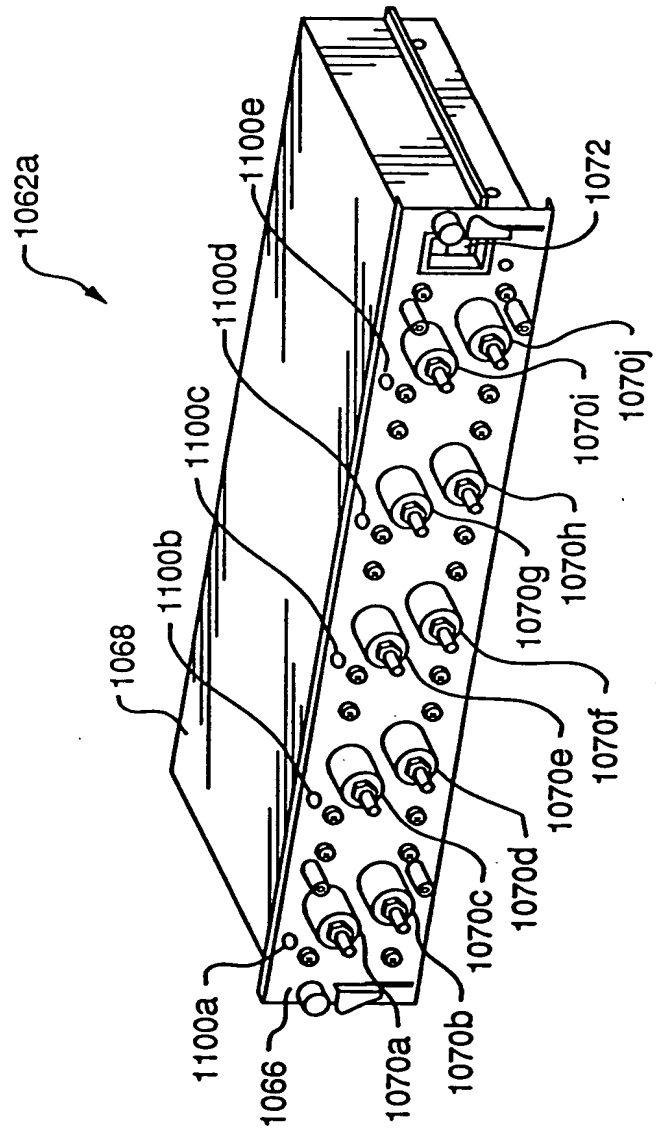

1062a
1100e
1100d
1100c
1100b
1068
1072
1070i
1070j
1070h
1070g
1070f
1070e
1070d
1070c
1070b
1070a
1066
1100a

FIG. 72A

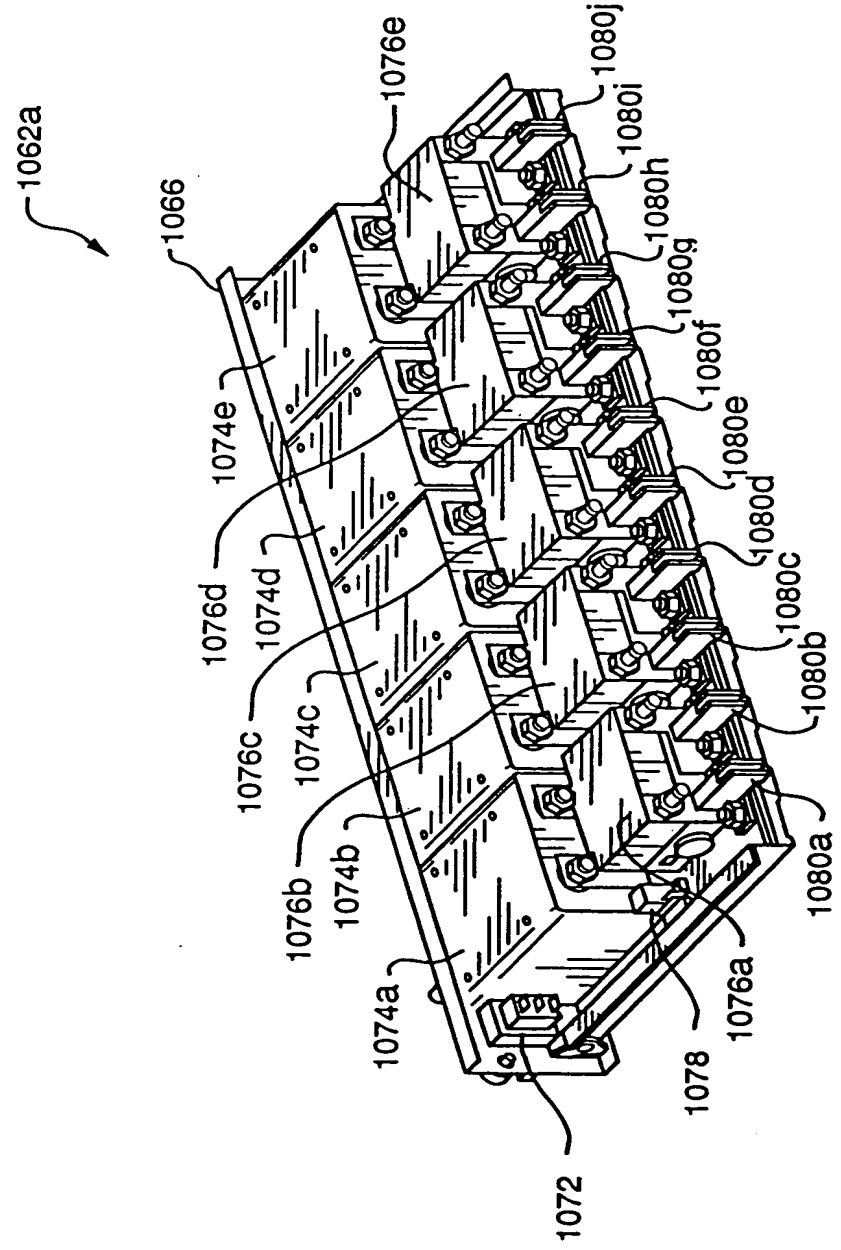

1062a
1066
1076e
1080j
1080i
1080h
1080g
1080f
1080e
1080d
1080c
1080b
1080a
1074e
1076d
1074d
1076c
1074c
1076b
1074b
1074a
1076a
1078
1072

FIG. 72B

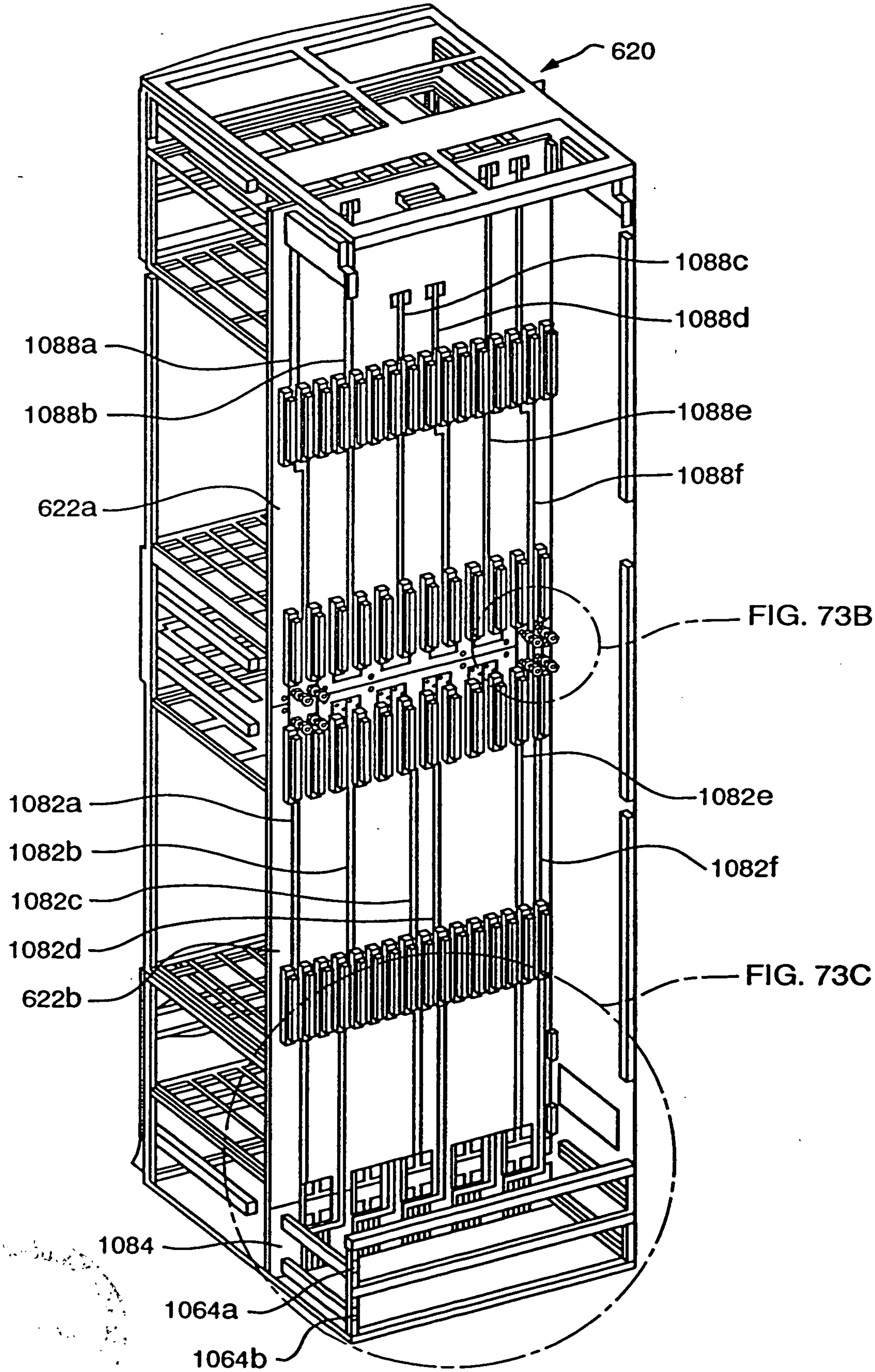


FIG. 73A

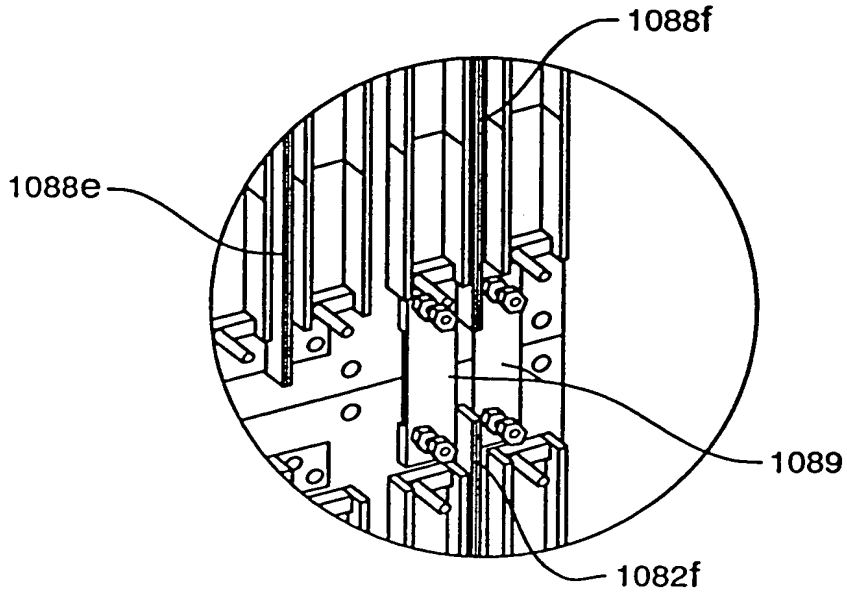


FIG. 73B

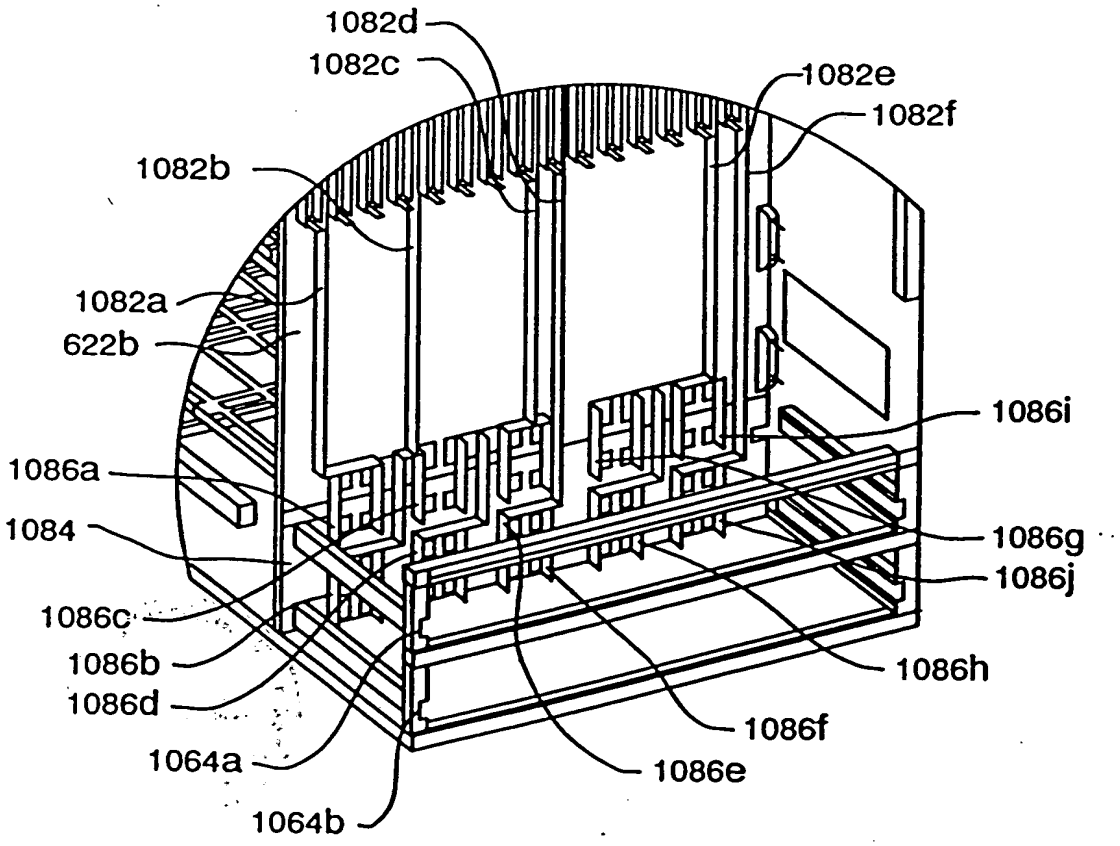


FIG. 73C

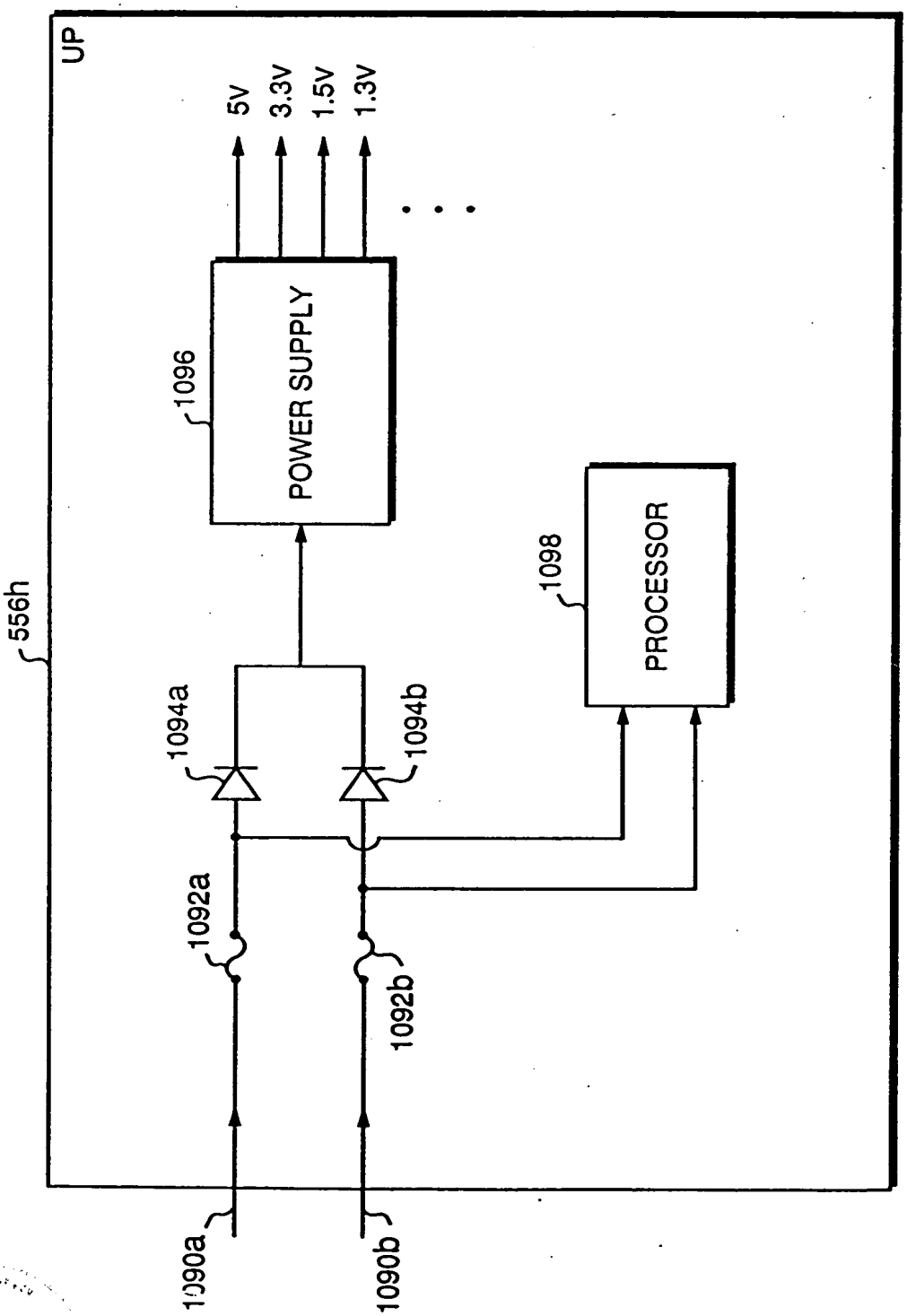

UP
5V
3.3V
1.5V
1.3V
1096
POWER SUPPLY
1098
PROCESSOR
556h
1094a
1094b
1092a
1092b
1090a
1090b

FIG. 74